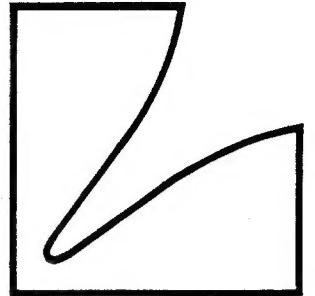
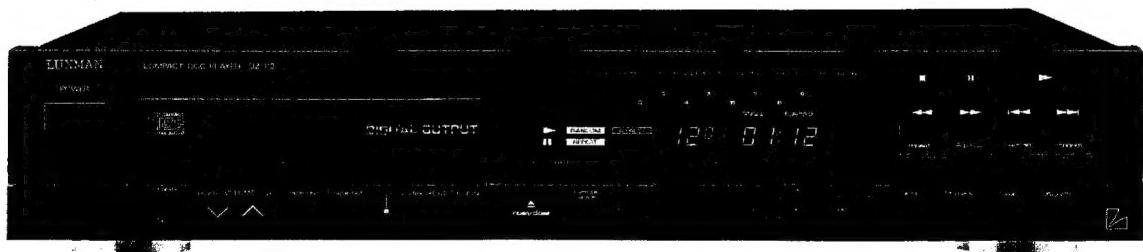


# SERVICE MANUAL



Compact Disc Player

# DZ-112



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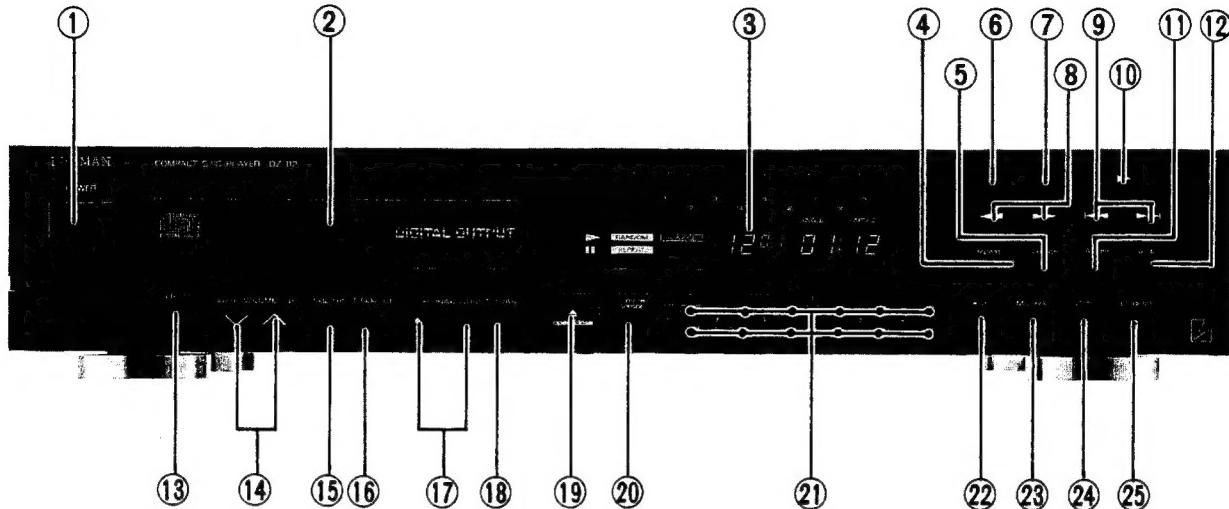
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## Specifications

Systems .....	Optical (Compact Disc System)
Quantizing Bit Number .....	16 Bit Linear System
Channels .....	2 Channels, Stereo
Pick-up .....	Semi-conductor Laser Pick-up
Output Voltage .....	2V±1dB
Frequency Response .....	5~20kHz±1dB
T.H.D.(1kHz) .....	0.008%
S/N Ratio .....	99dB
Dynamic Range .....	91dB
Channel Separation (1kHz) .....	90dB
Headphone Output Voltage (1kHz, -10dB/8 ohm) .....	150mV±1dB
Power Supply .....	AC120/220/240V, 50Hz (General European and West German Models Only) AC120V, 60Hz (North American and Canadian Models Only) AC240V, 50Hz (England Model Only)
Power Consumption .....	15W
Semi-conductors .....	21 IC's, 24 Transistors, 2 FETs, 19 Diodes, 3 Zener Diodes
Dimension (W × H × D) .....	438 × 85 × 311 (mm)
Weight .....	4.5kg

**NOTE:** Due to continuing product improvement, specifications and designs are subject to change without notice.

# CONTROLS & SWITCHES — FRONT PANEL



## 1. POWER BUTTON

Press this button to turn power on and off to the unit. The contents of the programmed play, random play and edit play are kept in memory even if the power is turned off. When one of the programmed play, random play and edit play functions has been set, the programmed operation will start when the power is turned on. When no programmed operation has been set, normal playback will start from the first track on the disc.

## 2. DISC TRAY

Place a disc on this tray, label side up. A light touch on the tray, when open, will cause it to retract back into the unit ready for play. Pressing PLAY, STOP, PAUSE, A-SCAN or any of the DIRECT ACCESS buttons will also close the tray and cause the unit to go into immediate operation.

**NOTE:** To use 8 cm (3 inch) single CD's, place them on the inner circular grooved area marked "8 cm disc" on the tray.

## 3. VACUUM FLUORESCENT DISPLAY

Track, index, time and programming functions are all simultaneously shown in this display. Refer to "operation guidelines" for details.

## 4. REPEAT Button

In normal play or random play mode, press this button to repeat all tracks on a disc.

In programmed play or edited play mode, pressing this button will repeat only those programmed or edited.

Pressing the "repeat" button a second time, will cancel the repeat function.

## 5. A-PAUSE (AUTO PAUSE) Button

Pressing this button will cause the machine to activate PAUSE automatically at the end of any currently playing track. To resume play, press the PLAY button. While the auto pause function is activated, A-PAUSE will show in the display.

## 6. STOP (reset) Button (■)

One press of this button will stop playback and return the pick-up to the beginning of the disc. A second push will clear (reset) all memory contents.

**NOTE:** The total number of tracks and the total playing time on the disc will always show on the display in the STOP mode.

## CONTROLS & SWITCHES — FRONT PANEL

### 7. PAUSE Button ( II )

Press this button to temporarily cease playback or to cue up a track or segment for recording, etc. To resume playback, press the "pause" button again or press the play button.

**NOTE:** Fast Forward/Backward scan and skip operations (items #9 and 8) are still operable in the "pause" mode.

### 8. FAST FORWARD/BACKWARD SCAN Buttons (◀◀, ▶▶)

When pressed, these buttons provide fast forward or backward scan within a track (music) selection. To more than double these scan speeds, press the "pause" button (item #7) first.

### 9. FORWARD/BACKWARD SKIP Buttons (◀◀, ▶▶)

These buttons allow one to "skip" forward or backward over any track in one track increments.

Pressing backward (◀◀) once will cause return to the beginning of the current track; a second immediate push will cause a skip back to the preceding track.

When the pick-up comes to the first selection, the next push will cause it to go to the beginning of the last selection on the disc.

Pressing forward (▶▶) will cause the player to skip forward, one track at a time for each successive push. When the last selection is reached, the next push will return the pick-up to the first track.

### 10. PLAY Button ( ▶ )

Press PLAY button when loading a disc for immediate playback beginning at track 1 and for starting a programmed sequence.

### 11. A-SCAN (AUTO SCAN) Button

Press this button to successively play a beginning of each track for ten seconds. During the auto scanning mode, the A-SCAN indicator will appear on the display.

### 12. RANDOM Button

Press this button to automatically play tracks at random. During the random play, the RANDOM indicator will appear on the display.

### 13. PHONES Jack

Use the "phones" jack to connect stereo headphones for private listening.

### 14. VOLUME UP/DOWN Buttons

Controls volume level of connected stereo headphones and the VARIABLE ANALOG OUTput jacks on the rear panel. When activated, the output level, as measured in db below maximum output, is shown in the display.

### 15. FADE-OUT Button

Use this button to gradually decrease the output level of the VARIABLE ANALOG OUTput jacks on the rear panel and the phones jack. When the fade-out completes, the unit enters the pause mode and the output level automatically returns to the original level.

### 16. T-FADE OUT (Time Fade Out) Button

Use this button to gradually decrease the output level of the VARIABLE ANALOG OUTput jacks on the rear panel and the phones jack after a length of play time as specified by the Direct Access select buttons. When the fade-out completes, the unit will enter the pause mode and the output level automatically returns to the original level.

### 17. DISPLAY ADJUST Button/Indicator

This button adjusts brightness of the display in four steps and also turns the display off. The red indicator lights up and stays lit in the 3 dimmed positions and in the display "off" position.

### 18. T-DISPLAY Button

Each push of this button selects one of 4 disc timing displays as follows:

"Single Elapsed" — Time elapsed since beginning of current track.

"Single Remain" — Play time remaining on current track.

"Total Elapsed" — Time elapsed since beginning of total disc.

"Total Remain" — Play time remaining on entire disc.

## CONTROLS & SWITCHES – FRONT PANEL

**NOTE:** When in program play mode, the remaining times displayed will be that of the selections programmed, not the entire disc.

In the RANDOM play mode, the display will not show Total Elapsed or Total Remain times. (This is not a malfunction.)

### 19. OPEN/CLOSE Button

Press to open or close the disc tray (See also item #2).

### 20. REMOTE SENSOR

When using the hand held remote control, it must be pointed toward this sensor to activate operational functions.

### 21. DIRECT ACCESS SELECT Buttons

Use for immediate play of any track from 1 to 99 or, in conjunction with the "program" button, select up to 32 tracks in any order for programmed operation.

Also, use these buttons for the edit play and time setting for the Time Fade Out function.

### 22. EDIT Button

For convenience in tape recording, this button will cause automatic grouping of tracks that can be recorded within the time specified for any given tape type used (C-60, C-90, etc.). That is, when recording time for one side of the tape is set with the Direct Access Select buttons while the EDIT is blinking on the display after the Edit button is pressed, the tracks that can be recorded for both sides of the tape within the specified time are programmed automatically.

### 23. M-CHECK Button

Use this button to check the order of the selections that have been programmed. With each successive push of this button, the track numbers that have been programmed will be shown to the left and the programmed order to the right, in the track display area (the time portion of the display will turn off).

**NOTE:** M-Check operates only in the "Stop" mode.

### 24. CLEAR Button

This function allows track by track clearing, in sequence, of any programmed track, beginning with the last track programmed. With each push of this button, the next track to be cleared will appear in the Track No. Display and the red frame around the last programmed track No. will disappear.

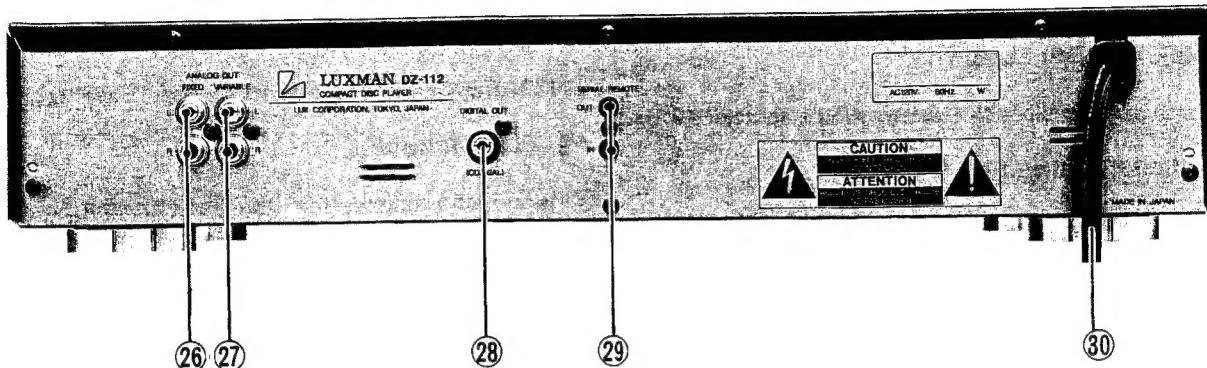
**NOTE:** "Clear" operates only in the "Stop" mode.

### 25. PROGRAM Button

Use this button in conjunction with the "Direct Access Select" buttons (item #21) to program up to 32 track selections in any random order. To clear program contents, press the STOP button twice.

**NOTE:** Pressing the **program** button will toggle between the selections programmed into memory and normal play operation. This allows one to temporarily go to normal play operation, if desired, without losing the stored program. To recover the program, simply press **program** again!

## JACKS & TERMINALS — REAR PANEL



### 26. ANALOG OUTPUT Jacks (Fixed)

For connection to the CD inputs of any amplifier or receiver. The output level is 2 volts fixed, referenced to 0 dB recording level.

### 27. ANALOG OUTPUT Jacks (Variable)

For connection to the CD inputs of any amplifier or receiver. The output level can be adjusted using the VOLUME UP/DOWN buttons.

### 28. DIGITAL OUTPUT Jack — Coaxial

Use this output for connection to a matching amplifier having a patch cord (coaxial) phono jack type digital input (such as the Luxman LV-113 or LV-117).

### 29. SERIAL REMOTE IN/OUT Jacks

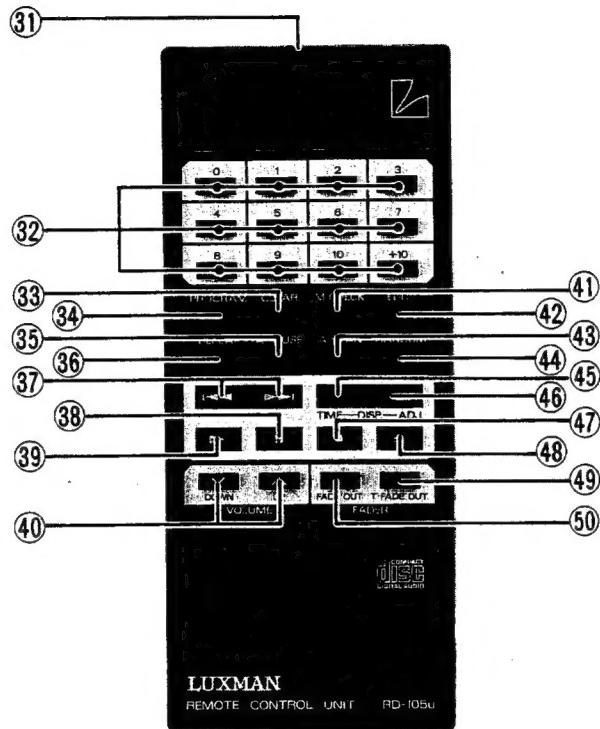
Use these jacks for simple and convenient connection to other Luxman components for System Remote Control operation. Connect these Serial Remote In and Out jacks to the Serial Remote Out and In jacks, respectively, on other Luxman components (in daisy chain fashion), for a unified remote control system.

**NOTE:** Turn the power off before connecting these jacks.

### 30. AC POWER CORD

Insert the polarized AC plug of the DZ-112 into any 120 volt AC/60 Hz wall outlet, or, preferably, into the unswitched outlet of the amplifier or receiver used with it.

## **CONTROLS & SWITCHES – REMOTE CONTROLLER**



**REMOTE CONTROLLER RD-105u**

**NOTE:** Operation is the same as for the buttons on the front panel of the DZ-112.

- |                                   |                              |
|-----------------------------------|------------------------------|
| 31. TRANSMISSION WINDOW           | 41. M-CHECK Button           |
| 32. DIRECT ACCESS (TRACK) Buttons | 42. EDIT Button              |
| 33. CLEAR Button                  | 43. A-SCAN Button            |
| 34. PROGRAM Button                | 44. RANDOM Button            |
| 35. A-PAUSE Button                | 45. TIME DISPLAY Button      |
| 36. REPEAT Button                 | 46. DISPLAY ADJUST Button    |
| 37. FORWARD/BACKWARD SKIP Buttons | 47. STOP Button              |
| 38. PAUSE Button                  | 48. OPEN/CLOSE (TRAY) Button |
| 39. PLAY Button                   | 49. T-FADE OUT Button        |
| 40. VOLUME UP/DOWN Buttons        | 50. FADE OUT Button          |

# Disassembly Instructions

## 1. Removal of CD Mechanism

- (1) After removal of the top cover, open the disc tray.
- (2) Remove the panel tray in the arrow direction as shown in Figure 1.
- (3) Remove three screws marked "O" as shown in Figure 2.
- (4) Disconnect all wires from the CD Mechanism.

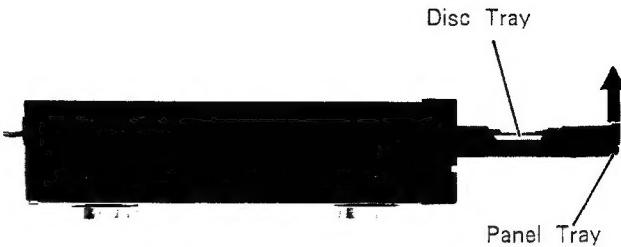


Figure 1

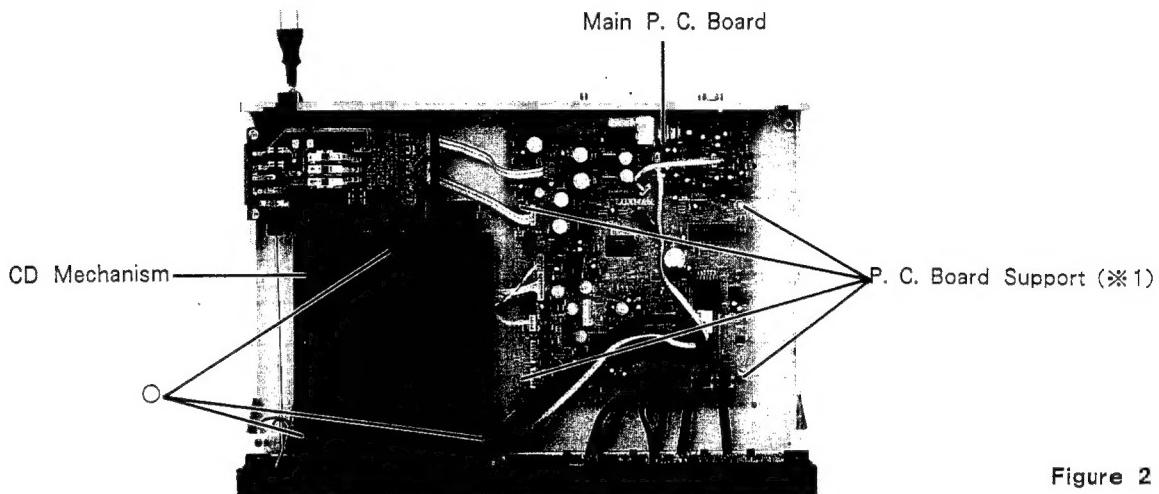


Figure 2

## 2. Removal of Front Panel and Logic/Fader/Phone P.C. Board

- (1) After removal of Front Panel, remove six screws marked "X" as shown in Figure 3.
- (2) Remove six hooks as shown in Figure 3.
- (3) Disconnect a connector from the Logic P.C. Board.

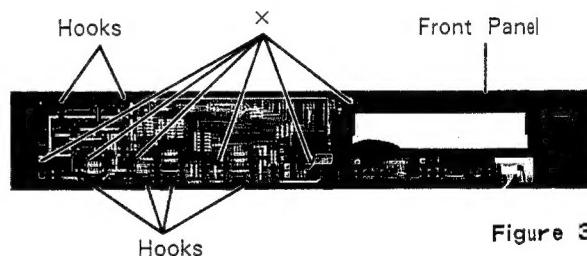


Figure 3

## 3. Removal of Main P.C. Board

- (1) After removal of the top cover, remove three screws marked "△" as shown in Figure 5.
- (2) Remove four P.C. Board supports (※1) from Main P.C. Board as shown in Figure 2, by pushing the point "A" as shown in Figure 4.
- (3) Disconnect all connectors from Main P.C. Board.

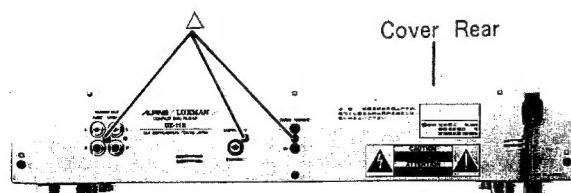


Figure 5

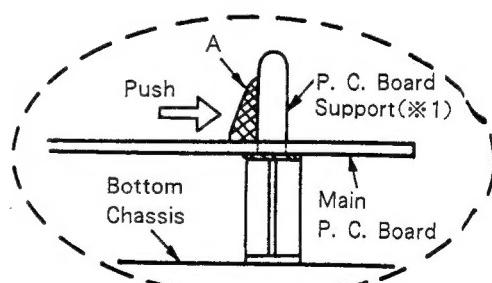
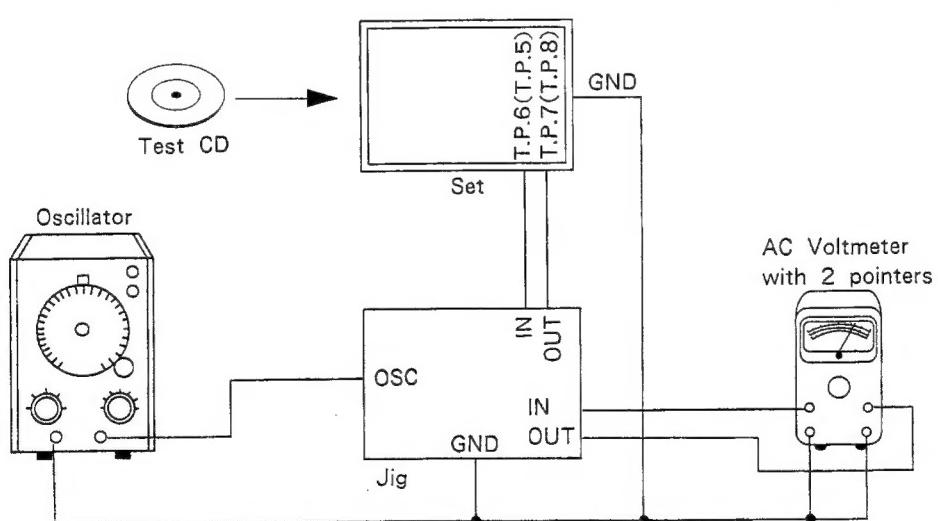
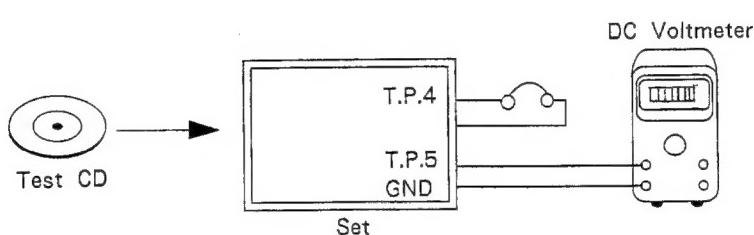
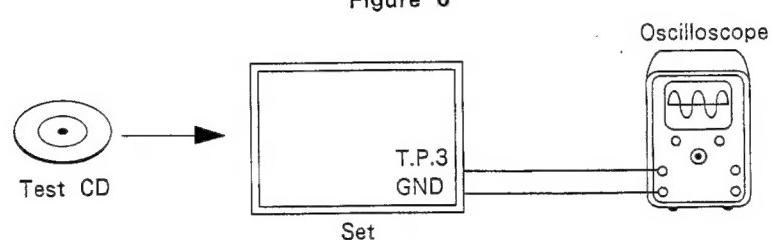
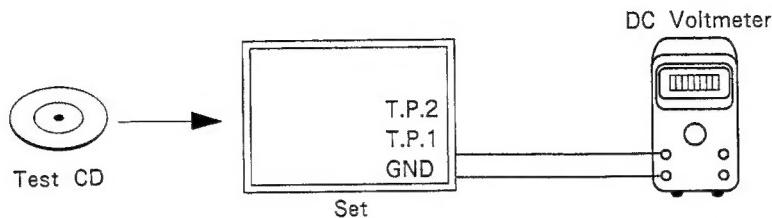
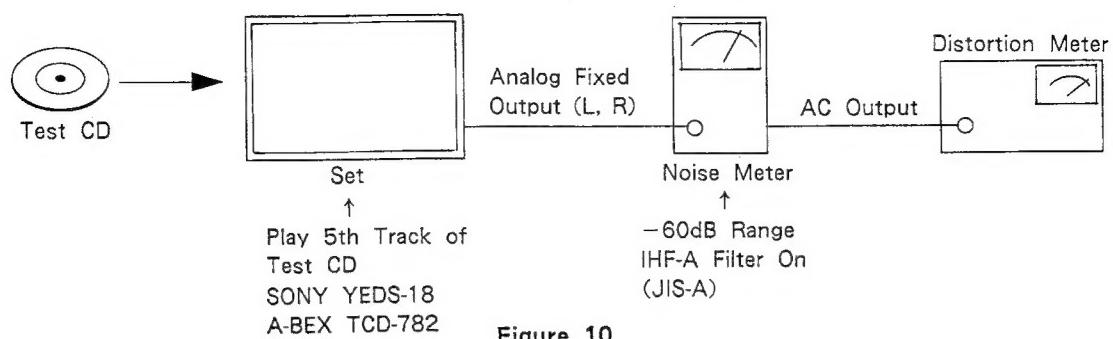


Figure 4

# Adjustment Procedures

## (1) Connection Diagrams





## (2) Switch Settings

Power Switch .....	ON
Play Switch .....	ON
Others .....	OFF

Step	Description	Connection	Oscillator Input	Test Point	Adjustment
1	VCO Adjustment	Figure 6	—	T.P.1 T.P.2	Measure the voltage at T.P.1. Then adjust VR1303 so that the output voltage at T.P.2 becomes $1/2$ of the voltage at T.P.1.
2	Focus Bias Adjustment	Figure 7	—	T.P.3	Adjust VR1202 to obtain at T.P.3 the maximum output waveform similar to that shown in Figure 11.
3	Tracking Error Balance Adjustment	Figure 8	—	T.P.4 T.P.6	Short circuit T.P.4 and fully rotate RC1301 in a counterclock direction. Then adjust VR1201 so that the output voltage at T.P.6 becomes $0 \pm 10$ mV. After completing the adjustment, rotate VR1301 back to near its center position.
4	Tracking Gain Adjustment	Figure 9	1kHz 100mV	T.P.6 T.P.7	Adjust VR1301 so that one pointer of the AC voltmeter comes above the other one.
5	Focus Gain Adjustment	Figure 9	1kHz 100mV	T.P.5 T.P.8	Adjust VR1302 so that one pointer of the AC voltmeter comes above the other one.
6	D/A Converter MSB Adjustment	Figure 10	—	Analog Fixed Output	Play back the -60dB 1kHz signal (5th track) of the test CD (SONY YEDS-18, A-BEX TCD-782) and amplify by 60dB using the noise meter encoded with the IHF-A (JIS-A) curve. Then measure the distortion rate on the AC output of the noise meter, and adjust separately VR1404 for the right channel and VR1403 for the left channel.

## ※Test CD

SONY YEDS-18 (Second track) → Tracking Error Balance Adjustment  
 SONY YEDS-18 (Second track) → Other Adjustments  
 A-BEX TCD-782 (Second track) → Tracking Error Balance Adjustment  
 A-BEX TCD-782 (Second track) → Other Adjustments

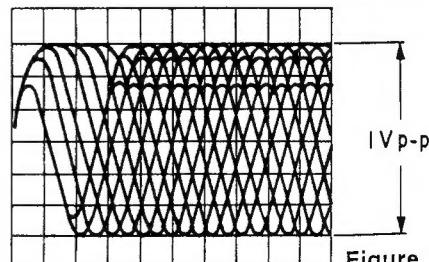
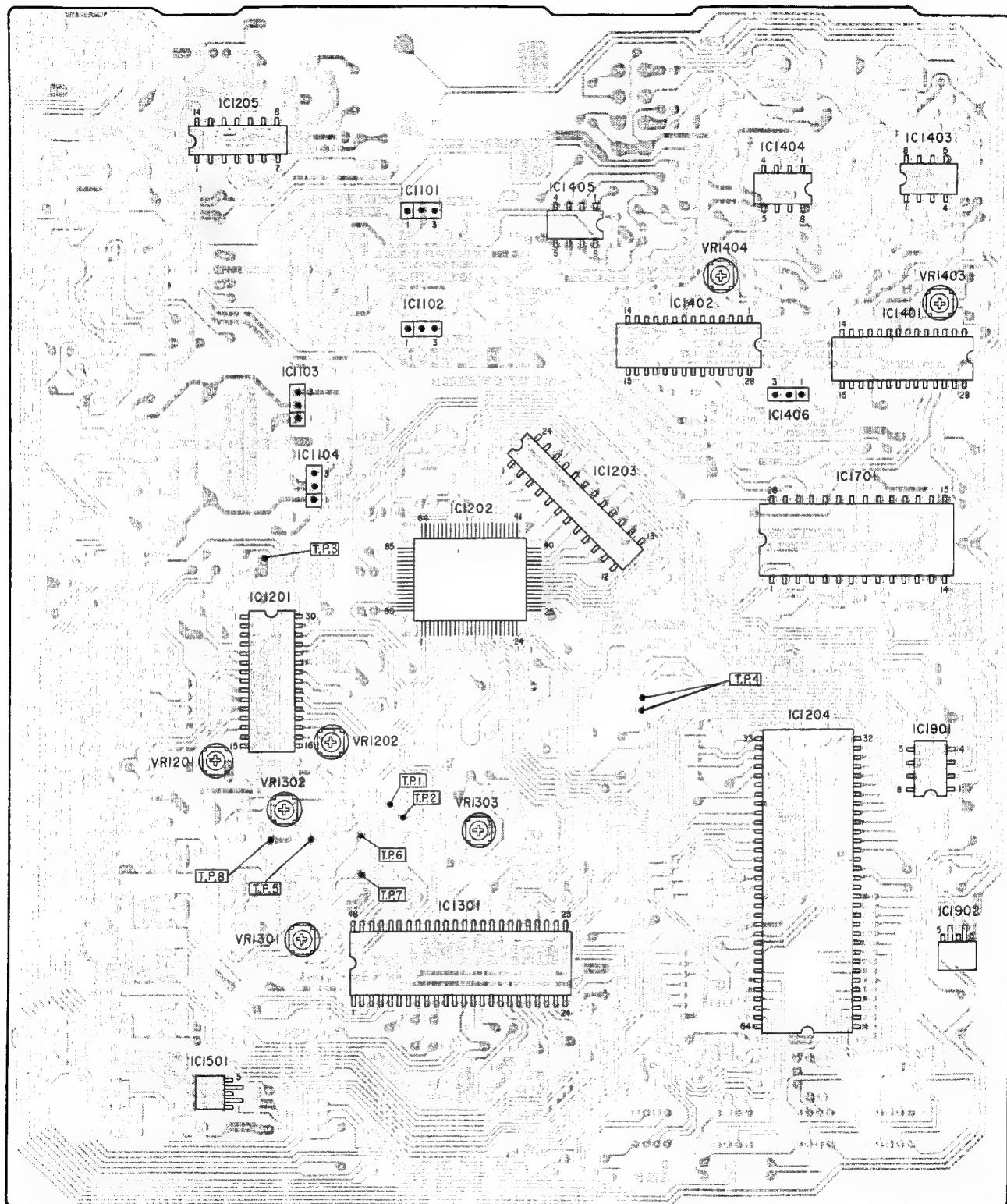


Figure 11

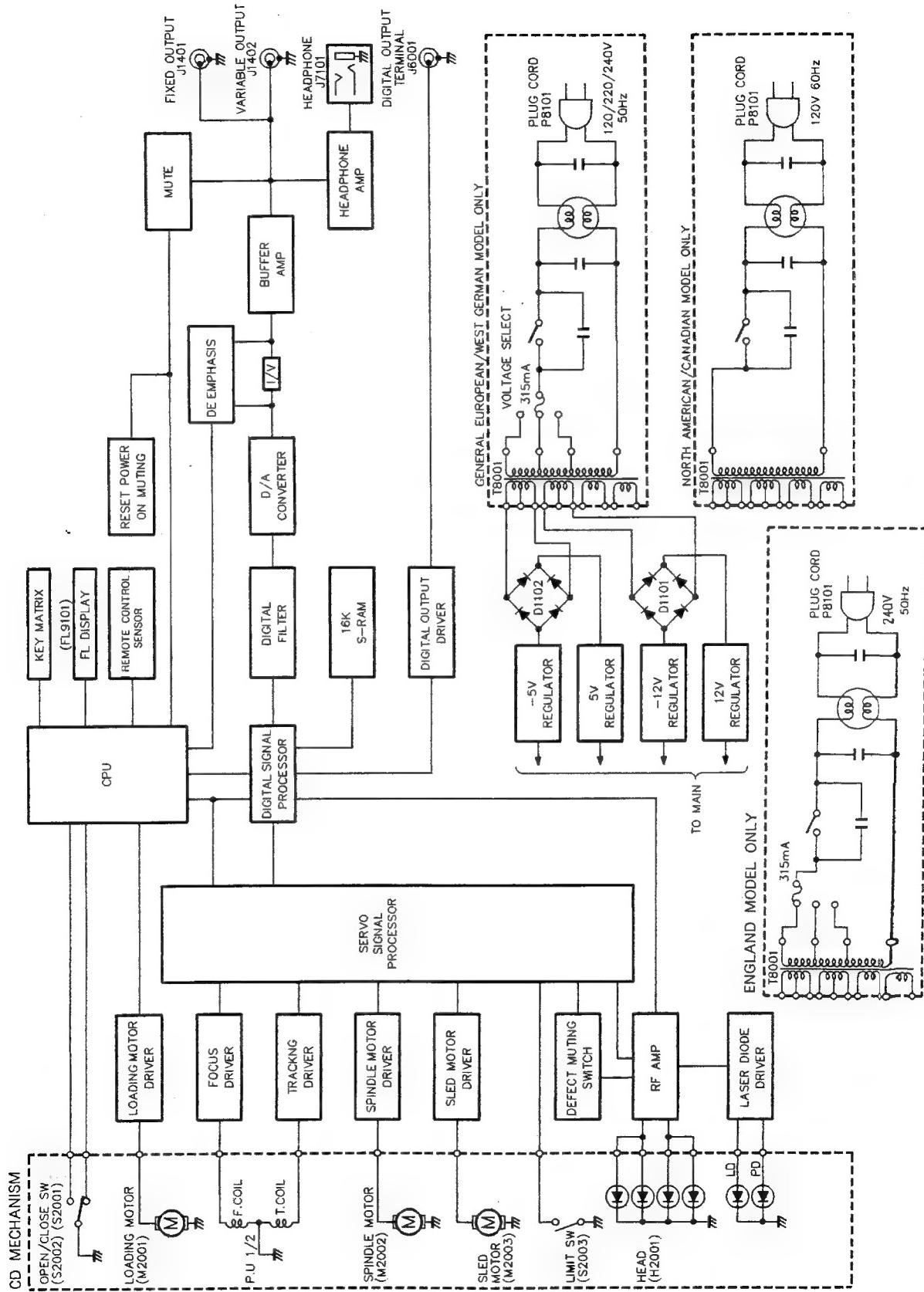
## Adjustment Locations



Main P.C. Board (Component Side View)

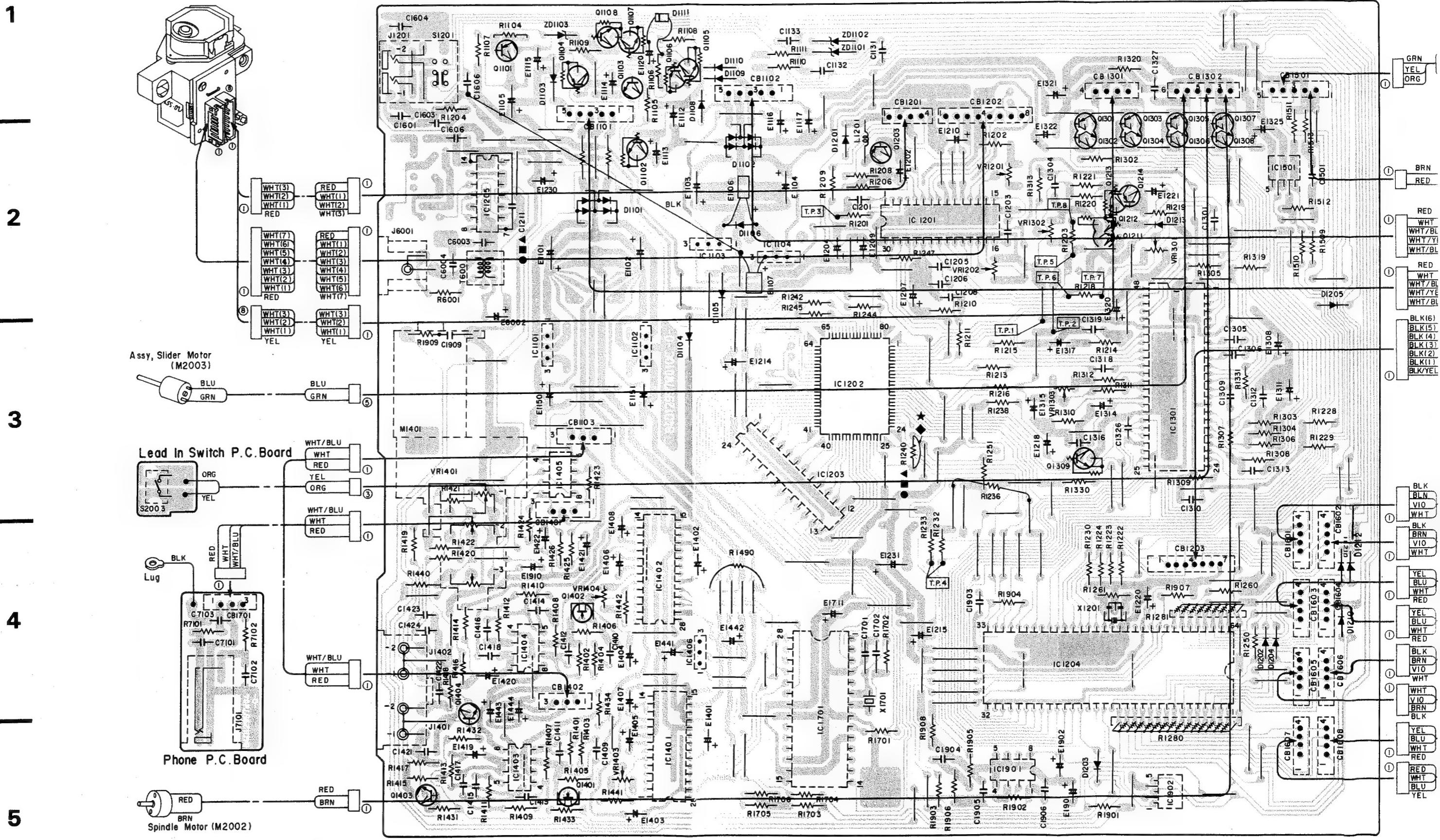
Figure 12

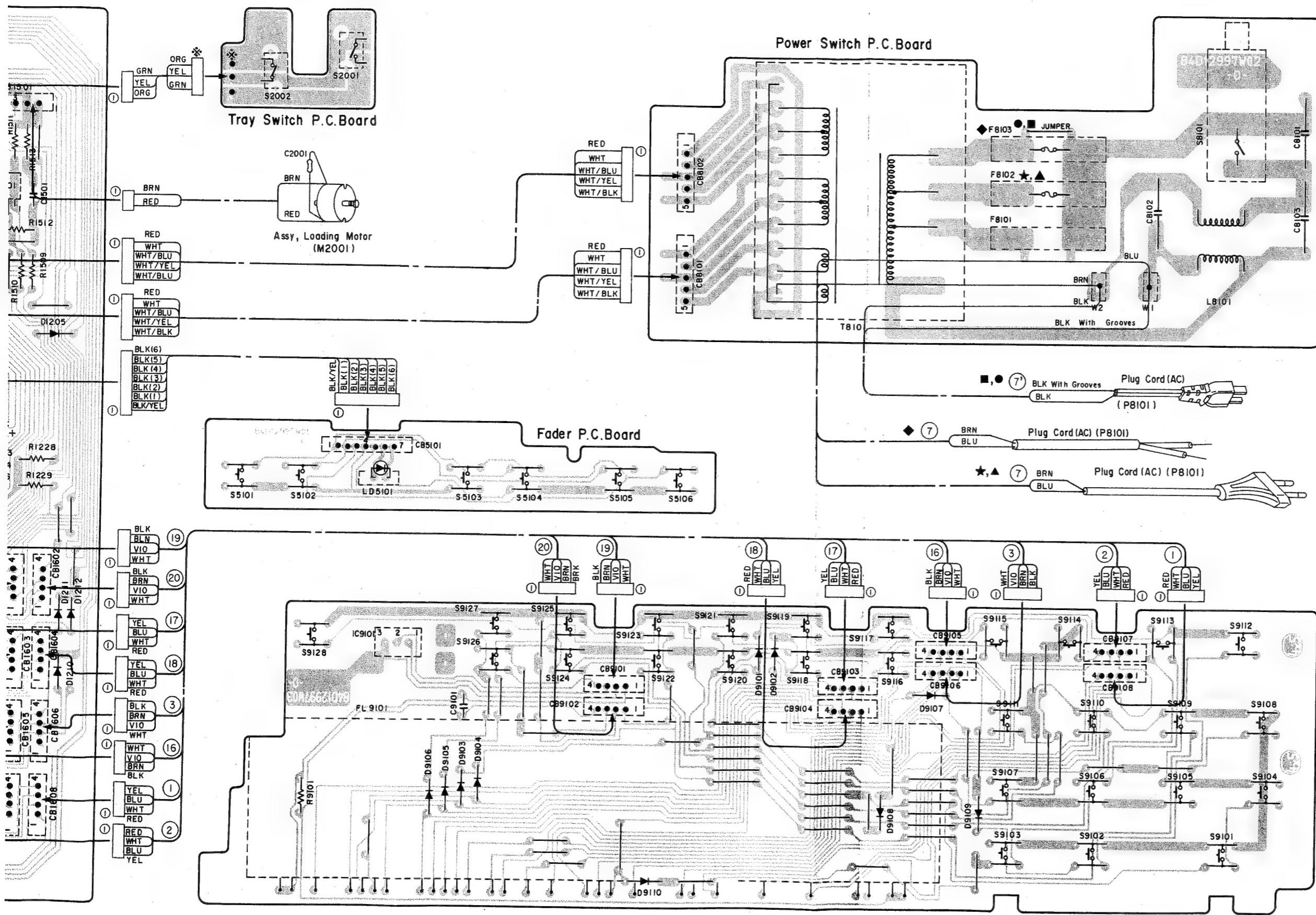
# Block Diagram



# Parts Layout on P.C. Boards and Wiring Diagram

Head, Optical Pickup (HD2001)



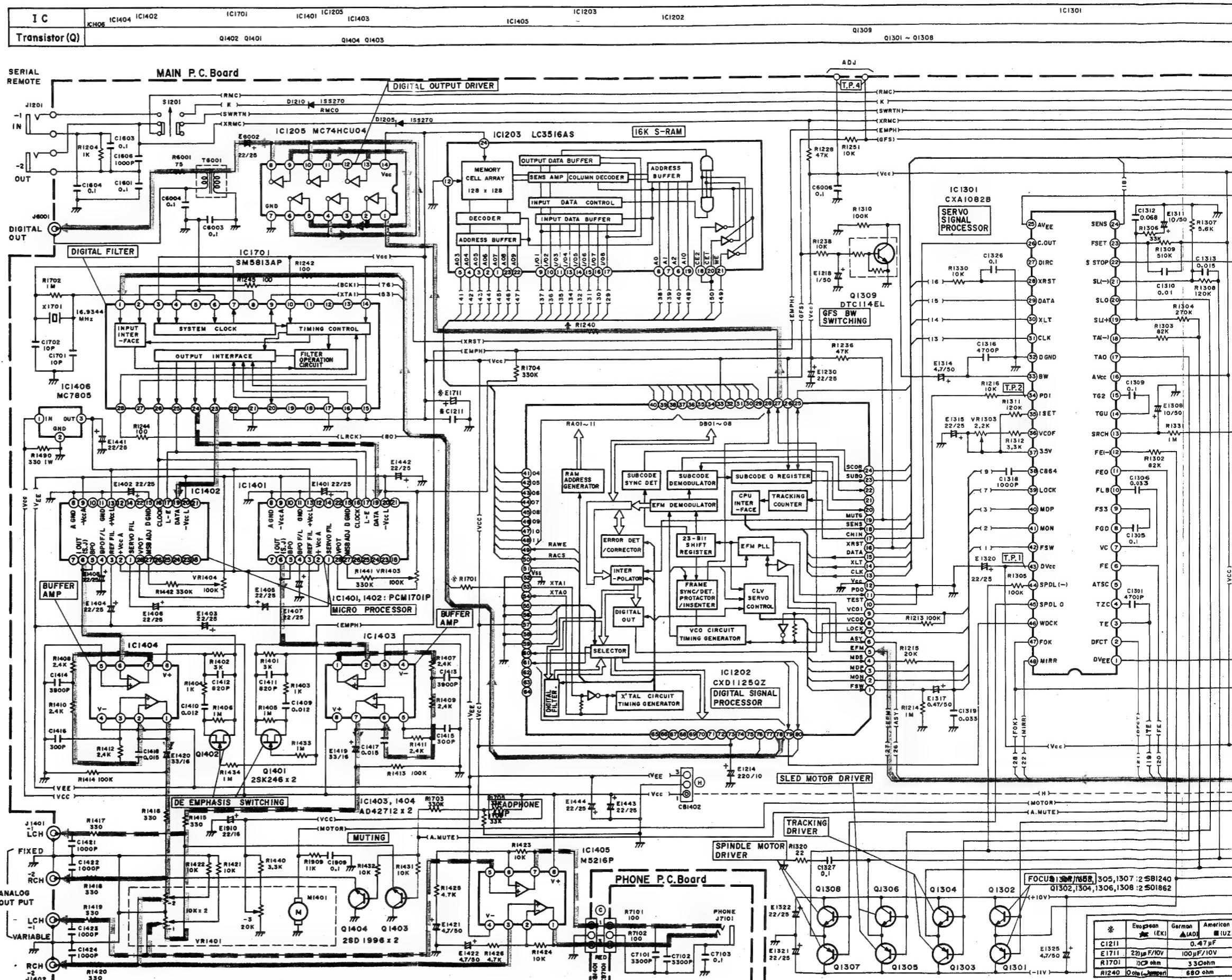


Note: ★: For General European models only(EK), ▲: For West German models only (AD)  
■: For North American models only(UK), ●: For Canadian models only (UQ)  
◆: For England models only(AG). Others: Common

BLU	.....	Blue
GRN	.....	Green
BLK	.....	Black
GRY	.....	Gray
WHT	.....	White
RED	.....	Red
BRN	.....	Brown
ORG	.....	Orange
YEL	.....	Yellow
PNK	.....	Pink
VIO	.....	Violet
GRN/WHT	.....	Green/White
GRY/WHT	.....	Gray/White
GRY/YEL	.....	Gray/Yellow
GRN/YEL	.....	Green/Yellow
SHLD	.....	Shield

# Schematic Diagram (1/2)

1

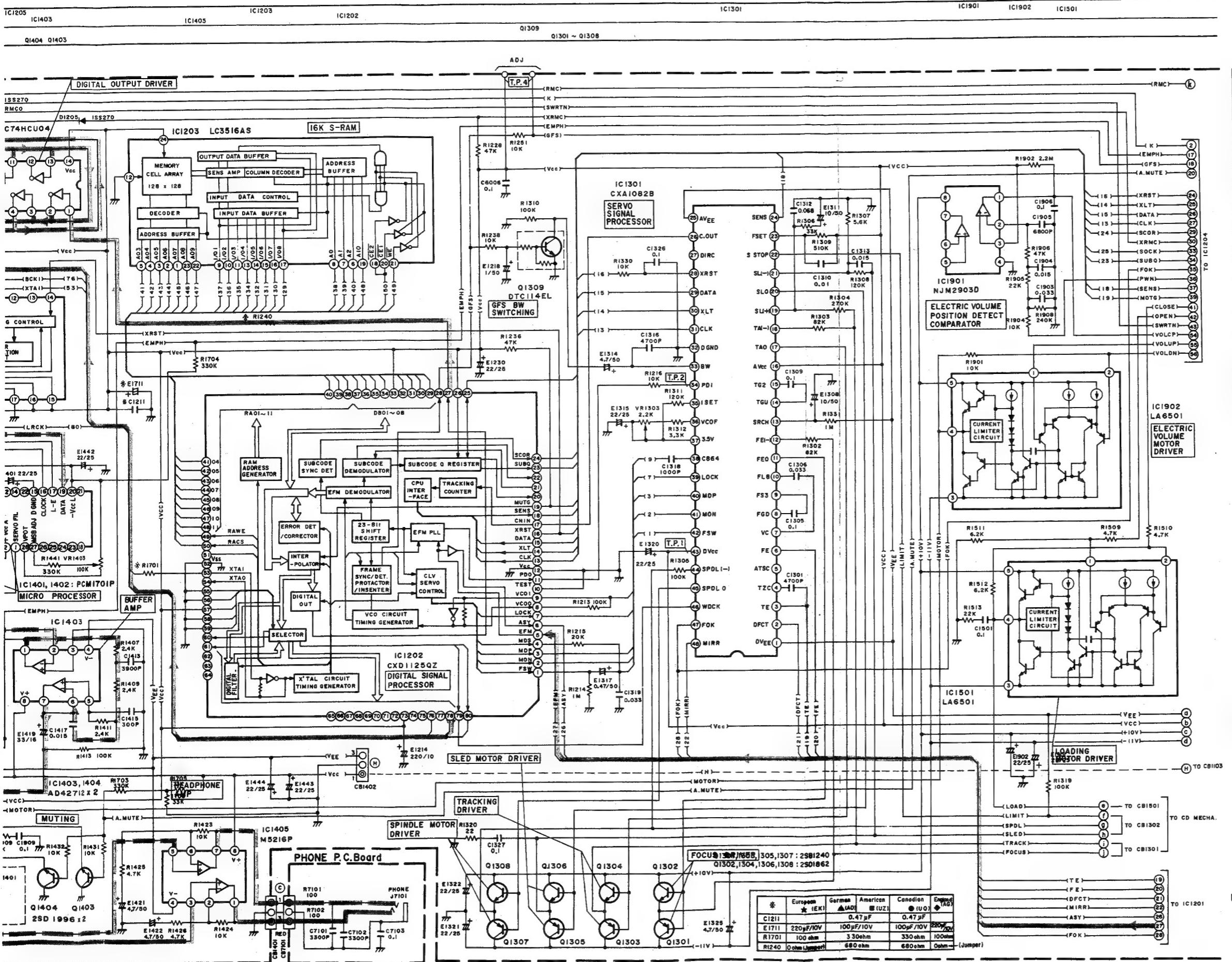


NOTES:

- All resistance values are in ohms. K = 1,000
- All capacitance values are in microfarads. P = 1,000,000

**A****B - 17 -****C****D****E****F - 18 -****G****H**

*	European Spec (EK)	German Spec (AD)	American Spec (UZI)
C121			0.47 μF
E1711	220 μF/10V		100 μF/10V
R1701	10K ohm		3.3 ohm
R1240	0.01 (10μF)		680 ohm



	E	C	B
Q1301	0.4V	-11V	0.9V
Q1302	0.4V	10.2V	0.9V
Q1303	0V	-11V	0V
Q1304	0V	10.2V	0V
Q1305	-11V	0V	-
Q1306	10.2V	0V	-
Q1307	0.5V	-11V	1V
Q1308	0.5V	10.2V	1V
Q1309	0V	0V	2.9V
Q1403	0V	0V	-5V
Q1404	0V	0V	-5V

	E	C	B
Q1401	0V	-1.2V	0V
Q1402	0V	-1.2V	0V

	E	C	B
Q1401	0.1V	21	41
Q1402	5V	22	42
Q1403	2.6V	23	43
Q1404	2.8V	24	44
Q1405	2.5V	25	45
Q1406	2.6V	26	46
Q1407	5.1V	27	47
Q1408	2.5V	28	48
Q1409	2.5V	29	49
Q1410	0V	30	50
Q1411	1.6V	31	51
Q1412	0V	32	52
Q1413	5.1V	33	53
Q1414	5.1V	34	54
Q1415	0V	35	55
Q1416	5.1V	36	56
Q1417	0.1V	37	57
Q1418	5.1V	38	58
Q1419	0V	39	59
Q1420	40	2.5V	60

	E	C	B
Q1401	1 OV	13	0V
Q1402	2 OV	14	0V
Q1403	3 OV	15	0V
Q1404	4 -14V	16	0V
Q1405	5 OV	17	0V
Q1406	6 2.5V	18	2.7V
Q1407	7 2.5V	19	2.7V
Q1408	8 2.5V	20	2.7V
Q1409	9 2.5V	21	2.7V
Q1410	10 2.5V	22	2.7V
Q1411	11 2.5V	23	2.7V
Q1412	12 2.5V	24	2.7V
Q1413	13 2.5V	25	2.7V
Q1414	14 2.5V	26	2.7V

	E	C	B
Q1401	1 OV	15	0V
Q1402	2 1.2V	16	5.1V
Q1403	3 2.4V	17	0V
Q1404	4 2.4V	18	0V
Q1405	5 2.5V	19	0V
Q1406	6 2.5V	20	0V
Q1407	7 2.5V	21	0V
Q1408	8 2.5V	22	5.1V
Q1409	9 2.5V	23	0.12V
Q1410	10 5.1V	24	3.7V
Q1411	11 5.1V	25	3.7V
Q1412	12 5.1V	26	1.9V
Q1413	13 5.1V	27	0V
Q1414	14 5.1V	28	2.5V

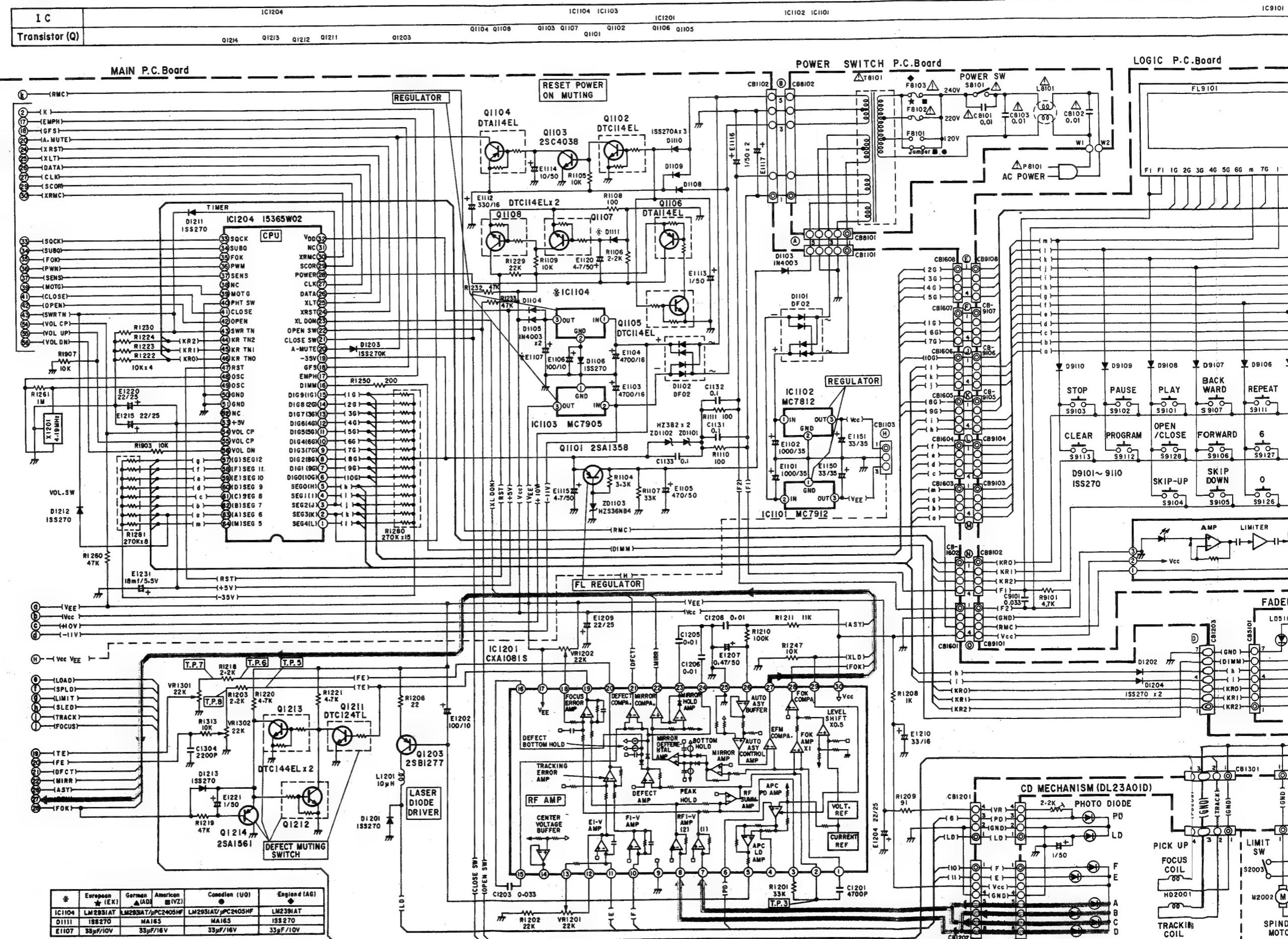
	E	C	B
Q1401	1 0.1V	21	41
Q1402	2 5V	22	42
Q1403	3 2.6V	23	43
Q1404	4 2.8V	24	44
Q1405	5 2.5V	25	45
Q1406	6 2.6V	26	46
Q1407	7 5.1V	27	47
Q1408	8 2.5V	28	5.1V
Q1409	9 2.5V	29	4.5V
Q1410	10 0V	30	2.7V
Q1411	11 1.6V	31	2.3V
Q1412	12 0V	32	0V
Q1413	13 5.1V	33	1.9V
Q1414	14 5.1V	34	2.4V

	E	C	B
Q1401	1 0V	15	0V
Q1402	2 0V	16	-12V
Q1403	3 0V	17	0V
Q1404	4 0V	18	0V
Q1405	5 19	19	5V
Q1406	6 -11.3V	20	2.2V
Q1407	7 -11V	21	0V
Q1408	8 2.4V	22	0.12V
Q1409	9 5V	23	3.7V
Q1410	10 -8.7V	24	1.9V
Q1411	11 2.9V	25	3.7V
Q1412	12 0V	26	0.12V
Q1413	13 0V	27	-12V
Q1414	14 2.9V	28	0V

	E	C	B
Q1401	1 -4.3V	17	0V
Q1402	2 0V	18	0V
Q1403	3 0V	19	0V
Q1404	4 0V	20	3.3V
Q1405	5 0V	21	0V
Q1406	6 0V	22	-5V
Q1407	7 0V	23	-4.1V
Q1408	8 0V	24	5V
Q1409	9 0V	25	-5V
Q1410	10 0V	26	0.1V
Q1411	11 0.9V	27	5.1V
Q1412	12 0V	28	5.1V
Q1413	13 0.9V	29	0V
Q1414	14 0V	30	5.1V
Q1415	15 0V	31	5.1V
Q1416	16 5V	32	0V

	[Measuring Conditions]	
• Power Supply	: AC 240V, 50Hz (AC model only)	
	: AC 120/220/240V, 50Hz (AD/BK model only)	
	: AC 120V, 60Hz (UZ/UQ model only)	
• Measuring Meter:	Digital Multi Voltmeter	
• Measuring Point Reference:	Between Ground	
• Measuring Condition:	In Play Mode of CD Non-signal Track	
	(Test CD : SONY YEDS-18 Track No. 7)	

# Schematic Diagram (2/2)



A

B - 20 -

C

D

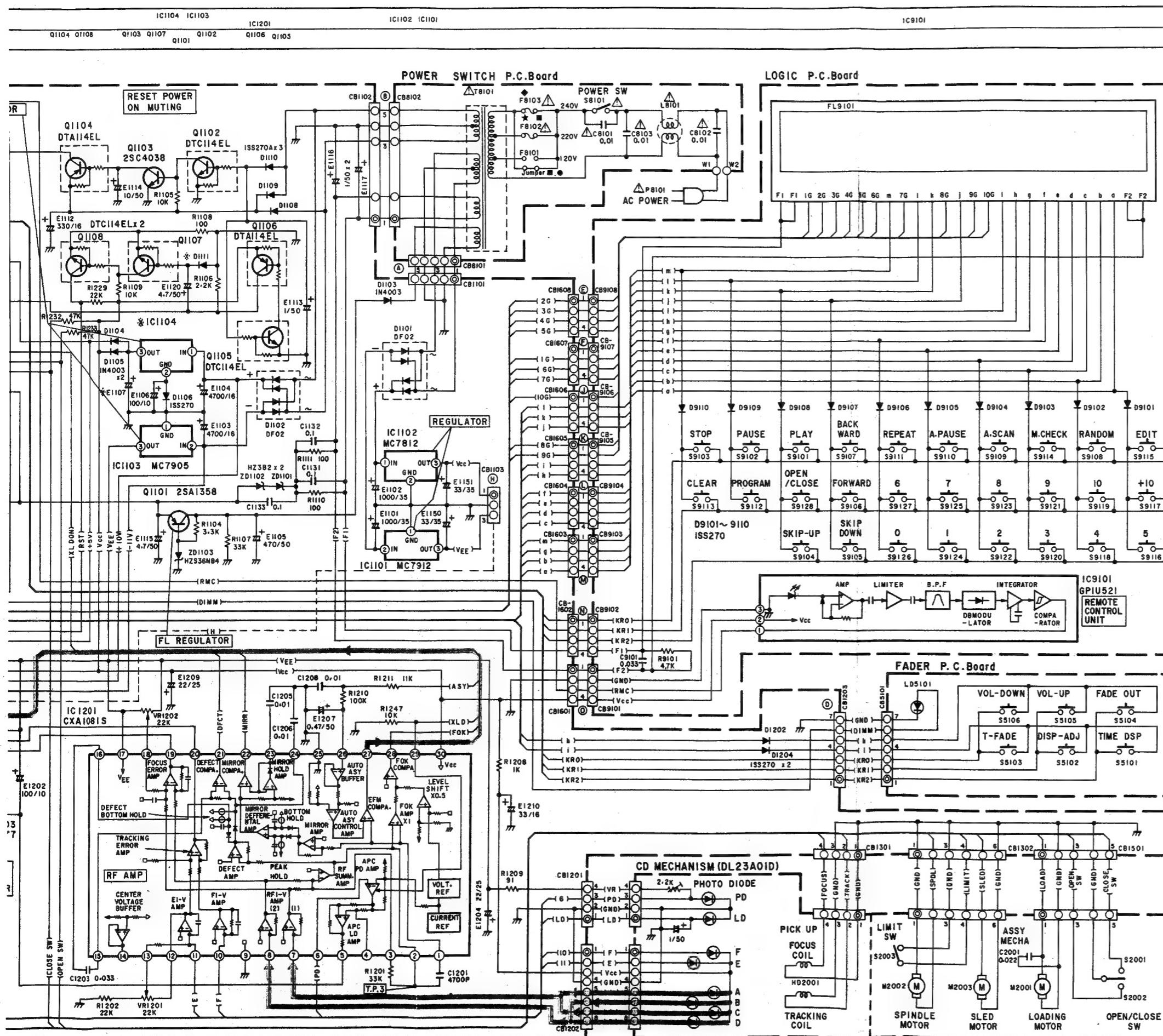
E

- 21 - F

G

H

#	European (EK)	German (AD)	American (VZ)	Comedian (UO)	England (AG)
IC1104	LM2951AT	LM2951AT/IPC2405HF	LM2951AT/IPC2405HF	LM2951AT	LM2951AT
D1111	ISS270	MA165	MA165	ISS270	
E1107	35pF/10V	35pF/16V	35pF/16V	35pF/10V	

**CAUTION :**

The  $\Delta$  mark, the symbol No. in the schematic diagram designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

E	C	B
Q1101	-34.8V	43.1V
Q1102	0V	0.01V
Q1103	0V	10.5V
Q1104		-5.9V
Q1105	0V	0V
Q1106	5V	0.03V
Q1107	0.04V	2.9V
Q1108	0.04V	0.04V
Q1203	4V	1.8V
Q1211	0V	0V
Q1212	0V	0V
Q1213	0V	4.7V
Q1214	4.7V	0V
		5V

I C 1 1 0 1	I C 9 1 0 1
1 0V	1 4.8V
2 -19.2V	2 5V
3 -12.2V	3 0V

I C 1 1 0 2
1 19.2V
2 0V
3 12V

I C 1 1 0 3
1 0.7V
2 -11.5V
3 -5V

I C 1 1 0 4
1 10.2V
2 5.88V

I C 1 2 0 1
1 0V 16 -2.9V
2 1.3V 17 -3V
3 1.3V 18 0V
4 3.1V 19 0.1V
5 3.3V 20 0V
6 -4.8V 21 -4.3V
7 0V 22 0V
8 0V 23 -1.2V
9 0V 24 -2V
10 0V 25 0V
11 0V 26 2.6V
12 -1.1V 27 2.5V
13 -0.7V 28 5V
14 0.1V 29 0.4V
15 -3V 30 5.1V

I C 1 2 0 4
1 -26.1V 17 -11.9V 33 5V 49 2.35V
2 -22V 18 5V 34 1V 50
3 -0.2V 19 35 0.03V 51
4 -24V 20 -5.7V 36 0V 52
5 1.8V 21 0V 37 5V 53 5.1V
6 -0.08V 22 5.1V 38 54 5V
7 -0.03V 23 0.4V 39 0V 55 0V
8 -0.08V 24 5.1V 40 0V 56 0V
9 -0.08V 25 5.1V 41 0V 57 -28.5V
10 -0.03V 26 0.03V 42 0V 58 -18.9V
11 -0.03V 27 5.1V 43 3.7V 59 -25V
12 -0.03V 28 5V 44 0V 60 -17V
13 -0.03V 29 0.03V 45 0V 61
14 -0.03V 30 5V 46 0V 62 -13V
15 -0.03V 31 0.05V 47 0.05V 63 -13V
16 0.01V 32 5.14V 48 2.35V 64 -29V

**[Measuring Conditions]**

- Power Supply
  - : AC 240V, 50Hz (AC model only)
  - : AC 120/220/240V, 50Hz (AD/EK model only)
  - : AC 120V, 60Hz (UZ/UQ model only)
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : In Play Mode of CD Non-signal Track  
(Test CD : SONY YEDS-18 Track No. 7)

**NOTES:**

- All resistance values are in ohms. K = 1,000
- All capacitance values are in microfarads. P =  $\frac{1}{1,000,000}$

# Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.  
uF=microfarads, pF=picofarads

Abbreviations			Symbol No.	Part No.	Description	
RES.=Resistor	CAP.=Capacitor		Q1106	48T82762F02	DTA114EL	
<b>Main P. C. Board</b>						
<b>IC's</b>						
● IC1101	51T94885F04	MC7912	Q1107	48T82763F02	DTC114EL	
● IC1102	51T94884F04	MC7812	Q1108	48T82763F02	DTC114EL	
● IC1103	51T94885F01	MC7905	Q1203	48T82759F01	2SB1277	
● or IC1104	51T16626W01	LM2931AT	Q1211	48T82763F11	DTC124TL	
● or IC1104	51T16168W02	μPC2405HF	Q1212	48T82763F04	DTC144EL	
◆ IC1104	51T16626W01	LM2931AT	Q1213	48T82763F04	DTC144EL	
■ IC1104	51T16168W02	μPC2405HF	Q1214	48T82757F01	2SA1561	
■ or IC1104	51T16626W01	LM2931AT	Q1301	48T84238F04	2SB1240	
▲ IC1104	51T16168W02	μPC2405HF	Q1302	48T83834F04	2SD1862	
▲ or IC1104	51T16626W01	LM2931AT	Q1303	48T84238F04	2SB1240	
★ IC1104	51T16626W01	LM2931AT	Q1304	48T83834F04	2SD1862	
IC1201	51T84721F01	CXA1081S	Q1305	48T84238F04	2SB1240	
IC1202	51T84720F01	CXD1125QZ	Q1306	48T83834F04	2SD1862	
or IC1202	51T84719F01	CXD1135QZ	Q1307	48T84238F04	2SB1240	
IC1203	51T84723F01	LC3516AS	Q1308	48T83834F04	2SD1862	
or IC1203	51T80623F02	CXK5816SP	Q1309	48T82763F02	DTC114EL	
IC1204	51T15365W02	15365W02	Q1401	48T66948F02	FET, 2SK246	
IC1205	51T94890F01	MC74HCU04	Q1402	48T66948F02	FET, 2SK246	
IC1301	51T84722F02	CXA1082BS	Q1403	48T90183F01	2SD1996	
IC1401	51T16014W02	PCM1701P	Q1404	48T90183F01	2SD1996	
IC1402	51T16014W02	PCM1701P	<b>Diodes</b>			
IC1403	51T15097W02	AD42712	D1101	48T15662W01	DF02	
IC1404	51T15097W02	AD42712	D1102	48T15662W01	DF02	
IC1405	51T81896F01	M5216P	D1103	48S40477U01	IN4003	
IC1406	51T94884F01	MC7805	D1104	48S40477U01	IN4003	
IC1501	51T90889F01	LA6501	D1105	48S40477U01	IN4003	
IC1701	51T15628W01	SM5813AP	D1106	48T84758F01	1SS270	
IC1901	51T64227F01	NJM2903D	or D1106	48T58583F01	1SS176	
IC1902	51T90889F01	LA6501	D1108	48T84758F01	1SS270	
<b>Transistors</b>				or D1108	48T58583F01	1SS176
Q1101	48T69177F01	2SA1358	D1109	48T84758F01	1SS270	
Q1102	48T82763F02	DTC114EL	or D1109	48T58583F01	1SS176	
Q1103	48T82758F01	2SC4038	D1110	48T84758F01	1SS270	
Q1104	48T82762F02	DTA114EL	or D1110	48T58583F01	1SS176	
Q1105	48T82763F02	DTC114EL	★ D1111	48T84758F01	1SS270	
				■ D1111	48T44813F02	MA165
				▲ D1111	48T44813F02	MA165
				◆ D1111	48T84758F01	1SS270
				● D1111	48T44813F02	MA165
				D1201	48T84758F01	1SS270
				or D1201	48T58583F01	1SS176
				D1202	48T84758F01	1SS270
				or D1202	48T58583F01	1SS176

Note : ★ : For General European model only (EK), ▲ : For West German model only (AD),  
 ■ : For North American model only (UZ), ● : For Canadian model only (UQ),  
 ◆ : For England model only (AG), Others : Common.

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description	
D1203 or	48T84758F01 48T58583F01	ISS270 ISS176			★ E1107 ■ E1107 ● E1107 ▲ E1107 ◆ E1107	23T00149L11 23T00181L17 23T00181L17 23T00181L17 23T00149L11	ELY.. 33 μ F/10V ELY.. 33 μ F/16V ELY.. 33 μ F/16V ELY.. 33 μ F/16V ELY.. 33 μ F/10V	
D1204 or	48T84758F01 48T58583F01	ISS270 ISS176			E1112 E1113 E1114 E1115 E1116	23T00181L19 23T00180L21 23T00180L25 23T00180L24 23T00180L21	ELY.. 330 μ F/16V ELY.. 1 μ F/50V ELY.. 10 μ F/50V ELY.. 4.7 μ F/50V ELY.. 1 μ F/50V	
D1205 or	48T84758F01 48T58583F01	ISS270 ISS176			E1117 ★ E1120 ◆ E1120 ■ E1120 ▲ E1120	23T00180L21 23T00180L24 23T00180L24 23T00181L43 23T00181L43	ELY.. 1 μ F/50V ELY.. 4.7 μ F/50V ELY.. 4.7 μ F/50V ELY.. 4.7 μ F/50V ELY.. 4.7 μ F/50V	
D1210 or	48T84758F01 48T58583F01	ISS270 ISS176			● E1120	23T00181L43	ELY.. 4.7 μ F/50V	
D1211 or	48T84758F01 48T58583F01	ISS270 ISS176			C1131 C1132 C1133	08T57298F01 08T57298F01 08T57298F01	CER.. 0.1 μ F CER.. 0.1 μ F CER.. 0.1 μ F	
D1212 or	48T84758F01 48T58583F01	ISS270 ISS176			E1150	23T00180L17	ELY.. 33 μ F/35V	
D1213 or	48T84758F01 48T58583F01	ISS270 ISS176			E1151	23T00180L17	ELY.. 33 μ F/35V	
ZD1101	48T52739F11	Zener, HZ3B-2			C1201	08T57705F63	MYL.. 4700pF	
ZD1102	48T52739F11	Zener, HZ3B-2			E1202	23T00180L04	ELY.. 100 μ F/10V	
ZD1103	48T90517F91	Zener, HZS36NB4			C1203	08T57705F73	MYL.. 0.033 μ F	
<b>Coil/Transformer/Crystals</b>								
L1201	24T50508F22	Coil, Inductor, 10 μ H			E1204	23T00180L12	ELY.. 22 μ F/25V	
T6001 X1201	25T94882F01 91T15285W01	Trans, Puls CER., LOCK 4.19MHz			C1205 C1206 E1207 C1208 E1209	08T57705F67 08T57705F67 23T00180L20 08T57705F67 23T00180L12	MYL.. 0.01 μ F MYL.. 0.01 μ F ELY.. 0.47 μ F/50V MYL.. 0.01 μ F ELY.. 22 μ F/25V	
X1701	48T84727F02	Crystal, AT-51 16.9344MHz			E1210 ● C1211 ■ C1211 ▲ C1211 ★ E1214	23T00180L08 08T94422F01 08T94422F01 08T94422F01 23T00138L13	ELY.. 33 μ F/16V CER.. 0.47 μ F CER.. 0.47 μ F CER.. 0.47 μ F ELY.. 220 μ F/10V	
<b>Jacks</b>								
J1201	09T84124F01	Jack, Headphone Mini W (S1201) (Serial Remote)			■ E1214 ▲ E1214 ● E1214 ◆ E1214 E1215	23T00180L05 23T00180L05 23T00180L05 23T00138L13 23T00180L12	ELY.. 220 μ F/10V ELY.. 220 μ F/10V ELY.. 220 μ F/10V ELY.. 220 μ F/10V ELY.. 22 μ F/25V	
J1401	09T15974W03	Jack, T6302 (Analog Out)			E1218 E1220 E1221 E1230 E1231	23T00180L21 23T00180L12 23T00180L21 23T00180L12 23T74513F06	ELY.. 1 μ F/50V ELY.. 22 μ F/25V ELY.. 1 μ F/50V ELY.. 22 μ F/25V ELY.. 18mF/5.5V	
J1402	09T15974W03	Jack, T6302 (Analog Out)			C1301 C1304 C1305 C1306 E1308	08T57705F63 08T57705F59 08T57705F79 08T57705F73 23T00180L25	MYL.. 4700pF MYL.. 2200pF MYL.. 0.1 μ F MYL.. 0.033 μ F ELY.. 10 μ F/50V	
J6001	09T15627W02	Jack, T6314 ORG NI (Digital Out)						
J7101	09T74077F02	Jack, Phones (Phones)						
<b>Capacitors</b>								
E1101 ◆ E1106 ● E1106 ★ E1106 ■ E1106 ▲ E1106	23T00181L37 23T00149L13 23T00181L09 23T00149L13 23T00181L09 23T00181L09	ELY.. 1000 μ F/35V ELY.. 100 μ F/10V ELY.. 100 μ F/10V ELY.. 100 μ F/10V ELY.. 100 μ F/10V ELY.. 100 μ F/10V						

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Symbol No.	Part No.	Description		Symbol No.	Part No.	Description		
C1309	08T57705F79	MYL., 0.1 μ F		C1604	08T57298F01	CER., 0.1 μ F		
C1310	08T57705F67	MYL., 0.01 μ F		C1606	08T40794F50	CER., 1000pF		
E1311	23T00180L25	ELY., 10 μ F/50V		C1701	08T55260F13	CER., 10pF		
C1312	08T57705F77	MYL., 0.068 μ F		C1702	08T55260F13	CER., 10pF		
C1313	08T57705F69	MYL., 0.015 μ F		● E1711	23T00180L04	ELY., 100 μ F/10V		
E1314	23T00180L24	ELY., 4.7 μ F/50V		★ E1711	23T00138L13	ELY., 220 μ F/10V		
E1315	23T00180L12	ELY., 22 μ F/25V		■ E1711	23T00180L04	ELY., 100 μ F/10V		
C1316	08T57705F63	MYL., 4700pF		▲ E1711	23T00180L04	ELY., 100 μ F/10V		
E1317	23T00180L20	ELY., 0.47 μ F/50V		◆ E1711	23T00138L13	ELY., 220 μ F/10V		
C1318	08T57705F55	MYL., 1000pF		E1901	23T00180L12	ELY., 22 μ F/25V		
C1319	08T57705F73	MYL., 0.033 μ F		E1902	23T00180L12	ELY., 22 μ F/25V		
E1320	23T00180L12	ELY., 22 μ F/25V		C1903	08T57705F73	MYL., 0.033 μ F		
E1321	23T00180L12	ELY., 22 μ F/25V		C1904	08T57705F69	MYL., 0.015 μ F		
E1322	23T00180L12	ELY., 22 μ F/25V		C1905	08T57705F65	MYL., 6800pF		
E1325	23T00180L24	ELY., 4.7 μ F/50V		C1906	08T57298F01	CER., 0.1 μ F		
C1326	08T57298F01	CER., 0.1 μ F		◆ C1909	08T42629F79	MYL., 0.1 μ F		
C1327	08T57705F79	MYL., 0.1 μ F		★ C1909	08T42629F79	MYL., 0.1 μ F		
E1401	23T00180L12	ELY., 22 μ F/25V		● C1909	08S65480F63	CER., 0.1 μ F		
E1402	23T00180L12	ELY., 22 μ F/25V		■ C1909	08S65480F63	CER., 0.1 μ F		
E1403	23T00180L12	ELY., 22 μ F/25V		▲ C1909	08S65480F63	CER., 0.1 μ F		
E1404	23T00180L12	ELY., 22 μ F/25V		E1910	23T00180L12	ELY., 22 μ F/25V		
E1405	23T00180L12	ELY., 22 μ F/25V		E6002	23T00180L12	ELY., 22 μ F/25V		
E1406	23T00180L12	ELY., 22 μ F/25V		C6003	08T57298F01	CER., 0.1 μ F		
E1407	23T00180L12	ELY., 22 μ F/25V		C6004	08T57298F01	CER., 0.1 μ F		
E1408	23T00180L12	ELY., 22 μ F/25V		C6006	08T57298F01	CER., 0.1 μ F		
C1409	08T93406F51	PP., 0.012 μ F		Resistors				
C1410	08T93406F51	PP., 0.012 μ F		R1280	06T74182F09	Block, 270k ohm × 5		
C1411	08T00152L08	PP., 820pF		R1281	06T74182F08	Block, 270k ohm × 8		
C1412	08T00152L08	PP., 820pF		R1490	06T92263F37	MF., 330 ohm 1W		
C1413	08T00152L16	PP., 3900pF		VR1201	18T15356W15	Variable, RH0634C 22k ohm		
C1414	08T00152L16	PP., 3900pF		VR1202	18T15356W15	Variable, RH0634C 22k ohm		
C1415	08T93406F12	PP., 300pF		VR1301	18T15356W15	Variable, RH0634C 22k ohm		
C1416	08T93406F12	PP., 300pF		VR1302	18T15356W15	Variable, RH0634C 22k ohm		
C1417	08T93406F53	PP., 0.015 μ F		VR1303	18T15356W09	Variable, RH0634C 2.2k ohm		
C1418	08T93406F53	PP., 0.015 μ F		VR1401	18T10803W03	Variable, RK16313MA (10K) (M1401)		
E1419	23T00180L08	ELY., 33 μ F/16V		VR1403	18T15356W19	Variable, RH0634C 100k ohm		
E1420	23T00180L08	ELY., 33 μ F/16V		VR1404	18T15356W19	Variable, RH0634C 100k ohm		
C1421	08T57705F55	MYL., 1000pF						
E1421	23T00180L24	ELY., 4.7 μ F/50V						
C1422	08T57705F55	MYL., 1000pF						
E1422	23T00180L24	ELY., 4.7 μ F/50V						
C1423	08T57705F55	MYL., 1000pF						
C1424	08T57705F55	MYL., 1000pF						
E1441	23T00180L12	ELY., 22 μ F/25V						
E1442	23T00180L12	ELY., 22 μ F/25V						
E1443	23T00180L12	ELY., 22 μ F/25V						
E1444	23T00180L12	ELY., 22 μ F/25V						
C1501	08T57705F79	MYL., 0.1 μ F						
C1601	08T57298F01	CER., 0.1 μ F						
C1603	08T57298F01	CER., 0.1 μ F						

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 ■ : For North American model only (UZ), ● : For Canadian model only (UQ),  
 ◆ : For England model only (AG), Others : Common.

Symbol No.	Part No.	Description		
<b>Fader P. C. Board</b>				
<b>LED</b>				
LD5101	48T66616F02	SLR-54VR3 (RED)		
<b>Switches</b>				
S5101	40T83324F11	Tact SKHHAP (TIME DSP)		
S5102	40T83324F11	Tact SKHHAP (DISP-ADJ)		
S5103	40T83324F11	Tact SKHHAP (T-FADE)		
S5104	40T83324F11	Tact SKHHAP (FADE-OUT)		
S5105	40T83324F11	Tact SKHHAP (VOL-UP)		
S5106	40T83324F11	Tact SKHHAP (VOL-DOWN)		
<b>Photo P. C. Board</b>				
<b>Capacitors</b>				
C7101	08T57705F61	MYL.,	3300pF	
C7102	08T57705F61	MYL.,	3300pF	
C7103	08T57298F01	CER.,	0.1 μ F	
<b>Power Switch P. C. Board</b>				
<b>Coils/Switch</b>				
★ L8101	24T15610W01	Coil, PLA6003R3A		
■ L8101	24T16397W01	Filter, Line SU10V-20006		
▲ L8101	24T16397W01	Filter, Line SU10V-20006		
● L8101	24T16397W01	Filter, Line SU10V-20006		
◆ L8101	24T15610W01	Coil, RLA6003R3A		
S8101	40T84122F01	Switch, Power SDDLE (Power Switch)		
<b>Capacitors</b>				
■ C8101	08T00195L01	POLY.,	0.01 μ F	
★ C8101	08T00195L01	POLY.,	0.01 μ F	
▲ C8101	08T00196L01	POLY.,	0.01 μ F	
● C8101	08T00195L01	POLY.,	0.01 μ F	
◆ C8101	08T00195L01	POLY.,	0.01 μ F	

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 ◆ : For England model only (AG), Others : Common.

Symbol No.	Part No.	Description		
■ C8102	08T00195L01	POLY.,	0.01 μ F	
▲ C8102	08T00196L01	POLY.,	0.01 μ F	
● C8102	08T00195L01	POLY.,	0.01 μ F	
★ C8102	08T00196L01	POLY.,	0.01 μ F	
◆ C8102	08T00196L01	POLY.,	0.01 μ F	
■ C8103	08T00195L01	POLY.,	0.01 μ F	
▲ C8103	08T00196L01	POLY.,	0.01 μ F	
★ C8103	08T00196L01	POLY.,	0.01 μ F	
● C8103	08T00195L01	POLY.,	0.01 μ F	
◆ C8103	08T00196L01	POLY.,	0.01 μ F	
<b>Logic P. C. Board</b>				
<b>IC's</b>				
IC9101 or	51T16094W01 51T16094W02	GP1U521		
<b>Diodes</b>				
D9101 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9102 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9103 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9104 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9105 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9106 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9107 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9108 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9109 or	48T84758F01 48T58583F01	1SS270 1SS176		
D9110 or	48T84758F01 48T58583F01	1SS270 1SS176		
<b>Switches</b>				
S9101	40T83324F11	Tact SKHHAP (PLAY)		
S9102	40T83324F11	Tact SKHHAP (PAUSE)		
S9103	40T83324F11	Tact SKHHAP (STOP)		
S9104	40T83324F11	Tact SKHHAP (SKIP-UP)		
S9105	40T83324F11	Tact SKHHAP (SKIP-DOWN)		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
S9106	40T83324F11	Tact SKHHAP (FORWARD)			M2001	01V11200W42	Assy., Loading Motor		
S9107	40T83324F11	Tact SKHHAP (BACKWARD)			M2002	59T81431F01	Spindle Motor		
S9108	40T83324F06	Tact SKHHAN (RANDOM)			M2003	01V94700F74	Assy., Slider Motor		
S9109	40T83324F06	Tact SKHHAN (A-SCAN)			★ P8101	28T43812P04	Plug, Cord		
S9110	40T83324F06	Tact SKHHAN (A-PAUSE)			▲ P8101	28T43812F04	Plug, Cord		
S9111	40T83324F06	Tact SKHHAN (REPEAT)			◆ P8101	28T44061F05	Plug, Cord		
S9112	40T83324F11	Tact SKHHAP (PROGRAM)			■ P8101	28T55335F02	Plug, Cord		
S9113	40T83324F11	Tact SKHHAP (CLEAR)			● P8101	28T55335F02	Plug, Cord		
S9114	40T83324F11	Tact SKHHAP (M-CHECK)			S2001	40T71025F01	Switch, Detector (IN/OUT)		
S9115	40T83324F11	Tact SKHHAP (EDIT)			S2002	40T71025F01	Switch, Detector (IN/OUT)		
S9116	40T83324F11	Tact SKHHAP (M5)			S2003	40T71025F01	Switch, Detector (Limit)		
S9117	40T83324F11	Tact SKHHAP (+10)			★ T8101	25T16148W01	Trans. Power		
S9118	40T83324F11	Tact SKHHAP (M4)			▲ T8101	25T16148W01	Trans. Power		
S9119	40T83324F11	Tact SKHHAP (M10)			■ T8101	25T16148W01	Trans. Power		
S9120	40T83324F11	Tact SKHHAP (M3)			● T8101	25T16147W01	Trans. Power		
S9121	40T83324F11	Tact SKHHAP (M9)			◆ T8101	25T16148W01	Trans. Power		
S9122	40T83324F11	Tact SKHHAP (M2)							
S9123	40T83324F11	Tact SKHHAP (M8)							
S9124	40T83324F11	Tact SKHHAP (M1)							
S9125	40T83324F11	Tact SKHHAP (M7)							
S9126	40T83324F11	Tact SKHHAP (M0)							
S9127	40T83324F11	Tact SKHHAP (M6)							
S9128	40T83324F11	Tact SKHHAP (OPEN/CLOSE)							
Capacitor									
C9101	08T57705F73	MYL., 0.033 μ F							
Miscellaneous									
★ F8102	08S40154T63 65T42077U11	CAP., CER., 0.022 μ F Fuse, Semko (315mA)							
▲ F8102	65T42077U11	Fuse, Semko (315mA)							
◆ F8103	65T42077U11	Fuse, Semko (315mA)							
FL9101	65T15386W01	Display, FL							
HD2001	88T81528F01	Head, Optical Pick Up							

Note : ★ : For General European model only (EK), ▲ : For West German model only (AD),  
 ■ : For North American model only (UZ), ● : For Canadian model only (UQ),  
 ◆ : For England model only (AG). Others : Common.

# Cabinet Assembly Parts List

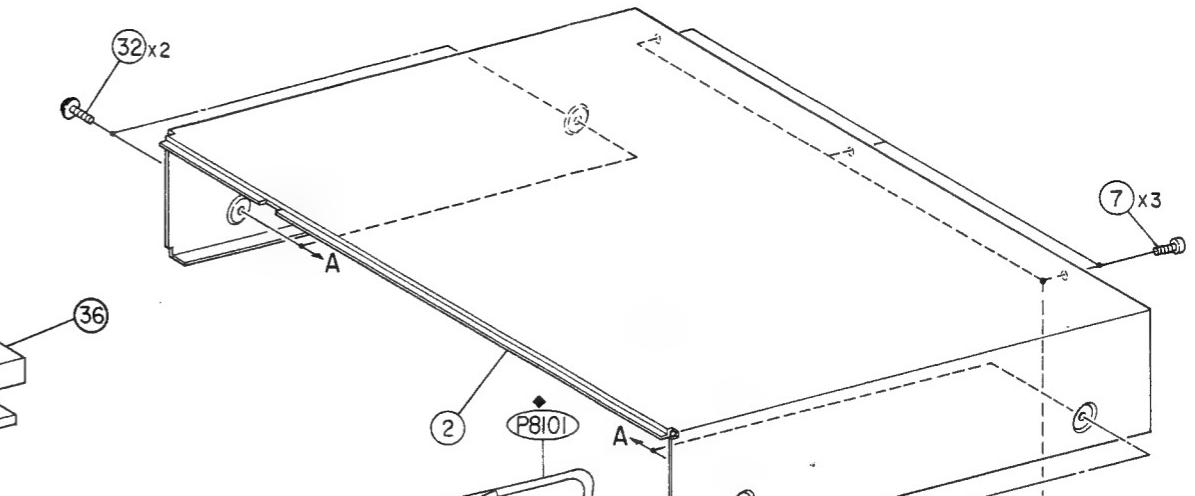
NOTE: The parts without part numbers are not supplied.

Symbol No.	Index	Part No.	Description		Symbol No.	Index	Part No.	Description	
★ 1	4-A	01C12897W01	Assy., Front Panel						
★ 2	2-F	15C12903W01	Cover, Top						
★ 4		15C12902W01	Cover, Rear						
▲ 4	4-H	15C12902W01	Cover, Rear						
■ 4	4-H	15C12902W03	Cover, Rear						
◆ 4		15C12902W01	Cover, Rear						
● 4		15C12902W03	Cover, Rear						
5 5	3-D	03S44205G49	Screw, Bind (M4 × 8)						
6 6	3-G	43T16093W01	Support, Cord						
7 7		03S71031F04	Screw, Bind (M3 × 8)						
8 8	2-B	03S71677F08	Screw, Pan (M2.6 × 8)						
9 9	4-F	07A91046F01	Support, P.C.B.						
10 10	2-D	03C42723U01	Screw, Cup (M3 × 6)						
11 11	2-C	47A12896W01	Shaft, Power						
12 12	2-C	43T25269W01	Pushing, Rubber						
13 13	1-D	03A83946F01	Screw, Special (M3 × 35)						
14 14	1-D	04S40071G14	Washer, Spring (M4.1)						
15 15	1-D	04S40070G59	Washer, Flat (M4.1)						
17 17		03S71031F02	Screw, Bind (M2.6 × 8)						
20 20	3-A	36A12937W01	Knob, Power						
23 23	3-F	03D40014G09	Screw, W/Washer (M3 × 5)						
◆ 26		09T51410F01	Holder, Fuse						
★ 26	3-D	09T51410F01	Holder, Fuse						
▲ 26	3-D	09T51410F01	Holder, Fuse						
28 28	4-C	01T15318W01	Assy., Lug Wire (1P)						
30 30	3-C	75S12196W21	Cushion, Rubber						
31 31		07A83876F01	Support, FL						
32 32		03S40036U01	Screw, W/Washer (M4 × 8)						
33 33		75A96563F01	Pad, Trannleg						
34 34		03S71677F25	Screw, Bind (M4 × 12)						
35 35	2-C	64B10696W04	Tray Z Panel						
37 37	3-H	16T82537F01	CAP., Pin Jack						
38 38	4-A	36A12907W01	Knob, Tact 10Key						
39 39		36A12909W01	Knob, Tact L						
40 40	3-A	36A12909W02	Knob, Tact Up						
41 41	3-A	36A12909W03	Knob, Tact Down						
42 42	1-E	03S13049W04	Screw, Bind (M3 × 33)						

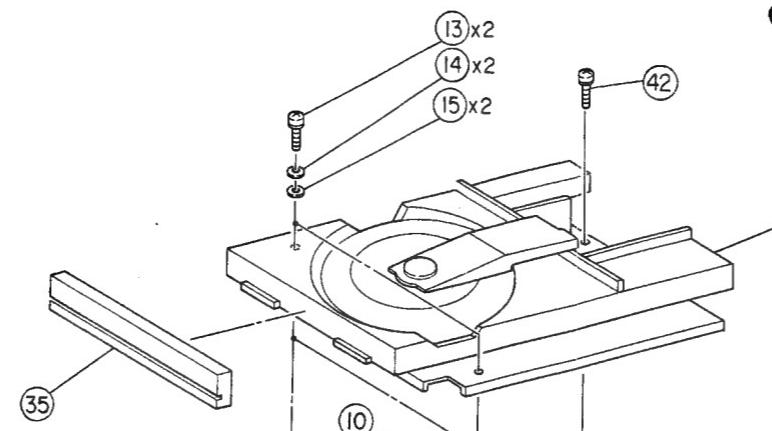
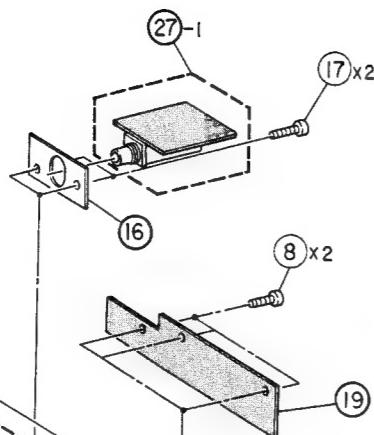
Note : ★ : For General European model only (EK), ▲ : For West German model only (AD),  
 ■ : For North American model only (UZ), ● : For Canadian model only (UQ),  
 ◆ : For England model only (AG), Others : Common.

## Exploded View (Cabinet)

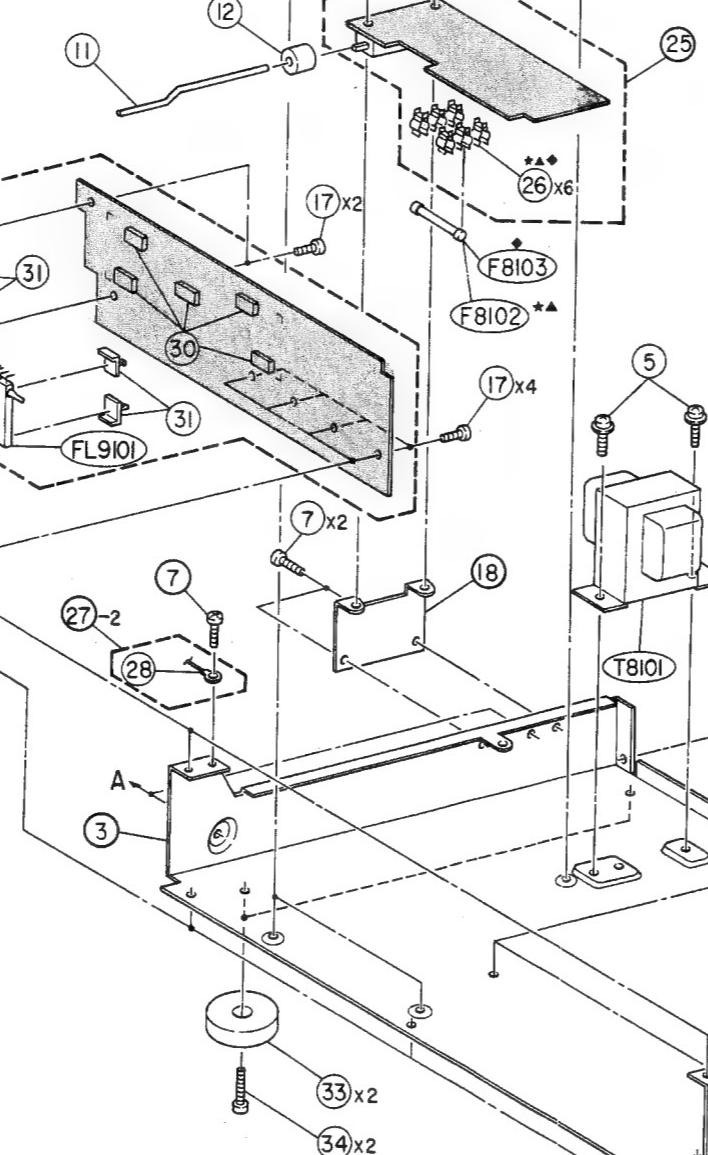
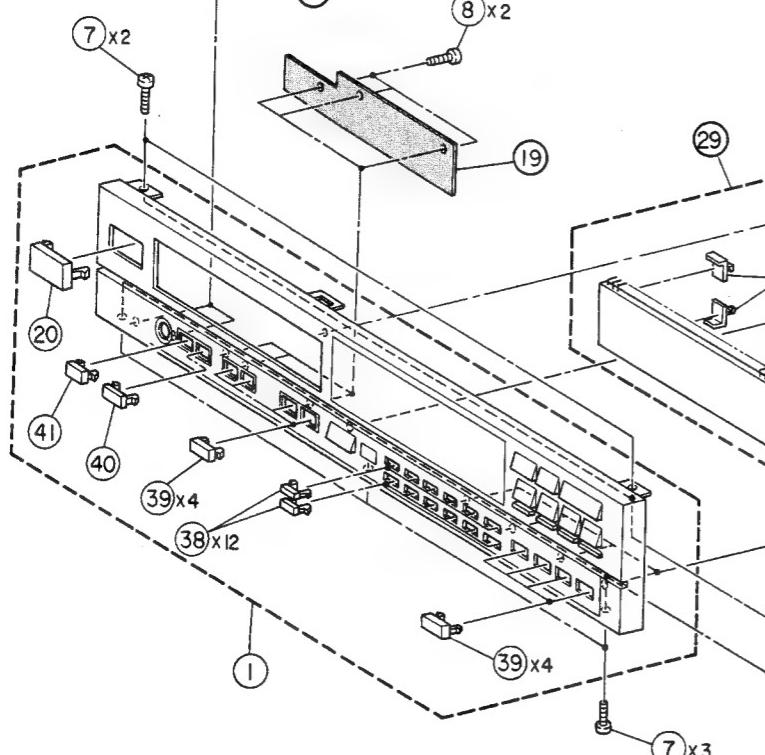
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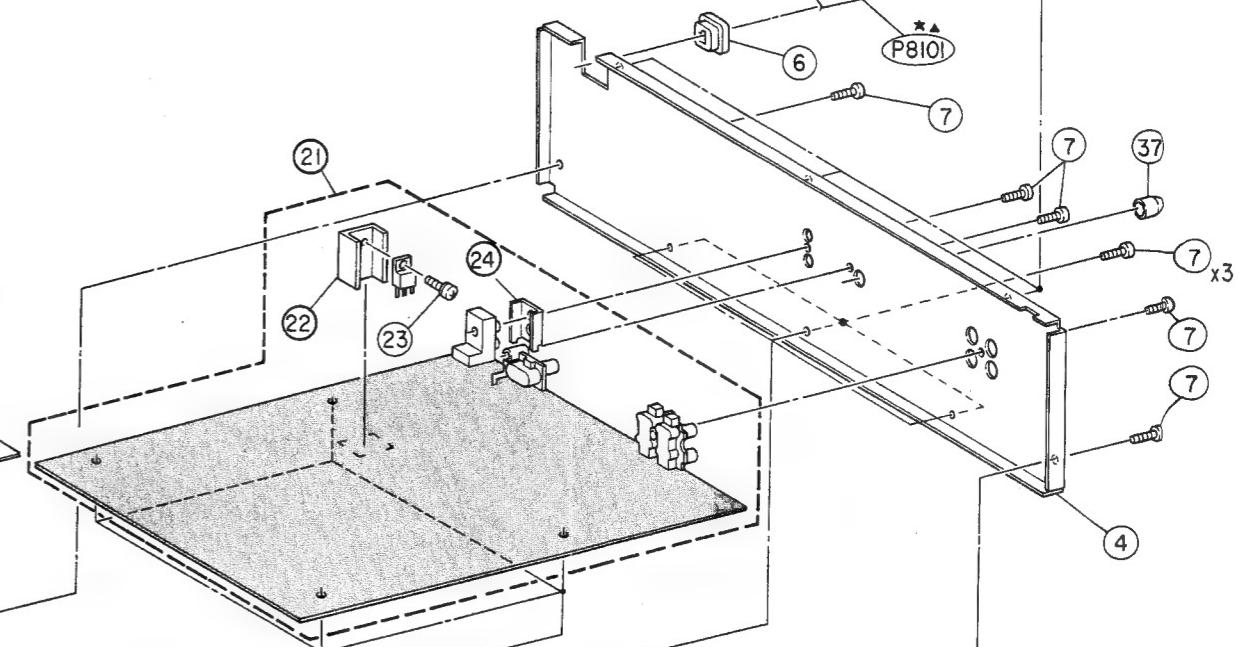
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3



4



5

Note : ★ : For General European model only (EK)

▲ : For West German model only (AD)

■ : For North American model only (UZ)

● : For Canadian model only (UQ)

◆ : For England model only (AG)

Others : Common

A

B - 29 -

C

D

E

F - 30 -

G

H

# Exploded View (CD Mechanism)

DZ-112

DZ-112

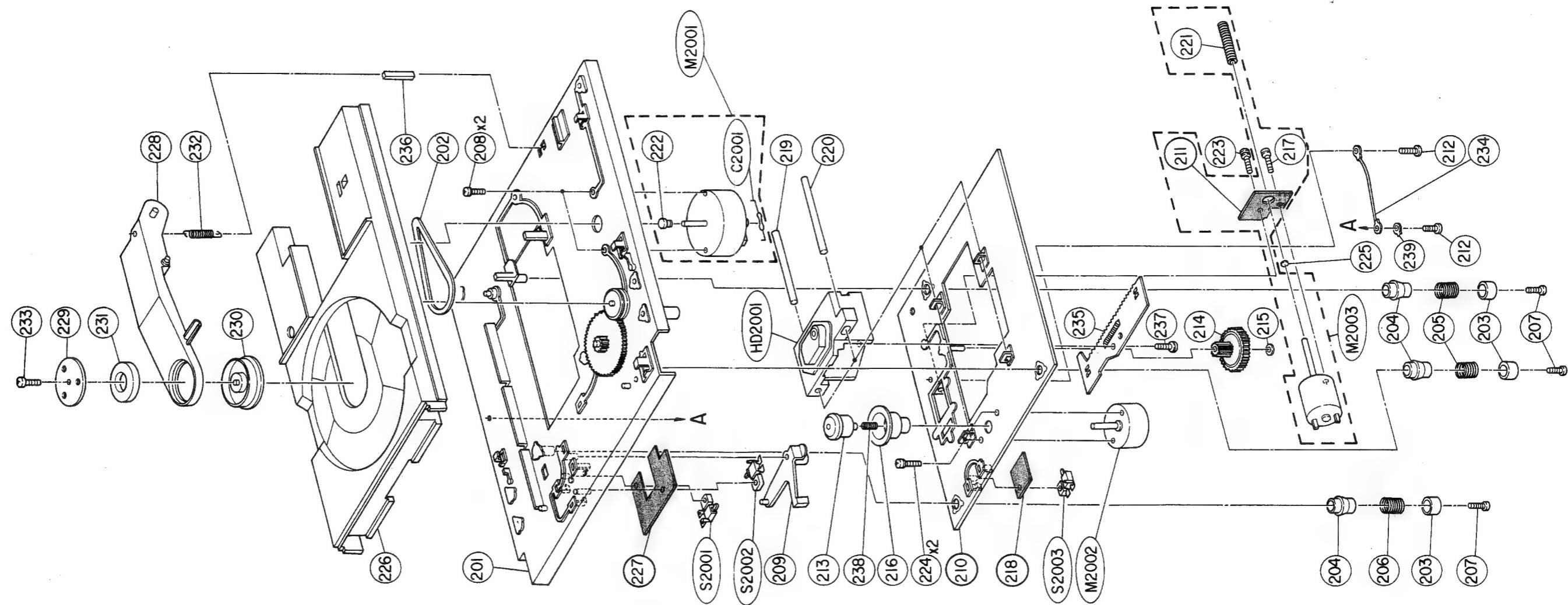
1

2

3

4

5



A

B - 31 -

C

D

E

F - 32 -

G

H

# CD Mechanism Assembly Parts List

Symbol No.	Index	Part No.	Description		Symbol No.	Index	Part No.	Description	
201	4-C	01C82391F02	Assy.. Main Chassis						
202	3-C	42A81427F02	Belt, Drive						
203		43A81407F01	Bush, Damper						
204		75A81411F01	Rubber, Damper						
205	3-G	41A81428F03	Spring, Compression						
206	4-G	41A81428F05	Spring, Compression						
207		03S40012G18	Screw, Tapping (M2.6 × 6)						
208	3-C	03D40014G19	Screw, W/Washer (M2.6 × 5)						
209	4-D	45A81434F01	Arm, Switch						
212		03S44205G30	Screw, Pan (M2.6 × 4)						
213	4-E	49B81417F01	Disc, Guide						
214	3-F	44A81401F01	Gear, Worm Wheel						
215	3-G	04A41345P02	Washer, Lock (M1.7)						
216	4-E	49B81414F01	Disc, Table						
217	3-G	03D40014G62	Screw, W/Washer (M2 × 3)						
219	3-D	47A81426F01	Shaft, Head						
220	3-E	47A81426F02	Shaft, Head						
221	2-F	44A96257F01	Worm, Drive						
222	3-D	49A81397F01	Pulley, Loading Motor						
223	3-F	03C40121T31	Screw, W/Double Washer (M2 × 6)						
224	4-E	03D40014G07	Screw, W/Washer (M2 × 4)						
225	3-G	43A41182P02	Ball Steel						
226	4-C	01C10716W01	Assy., Tray Disc						
228	3-B	45C81418F04	Arm, Clamp						
229	3-A	07A81413F02	Bracket, Magnet						
230	3-B	49A81403F01	Wheel, Clamp						
231	3-A	59T81430F01	Magnet						
232	3-B	41B81429F02	Spring, Extension						
233	3-A	03S70494F08	Screw, Bind (M2 × 5)						
234	3-H	01T92483F01	Assy., Lug Wire (1P)						
235	3-F	01A82323F01	Assy., Rack						
236	3-C	75S12196W06	Cushion, Rubber						
237	3-F	03S70494F01	Screw, Bind (M2 × 5)						
238	4-E	41A81428F01	Spring, Compression						
239	3-G	01T84733F11	Assy., Lug Wire						

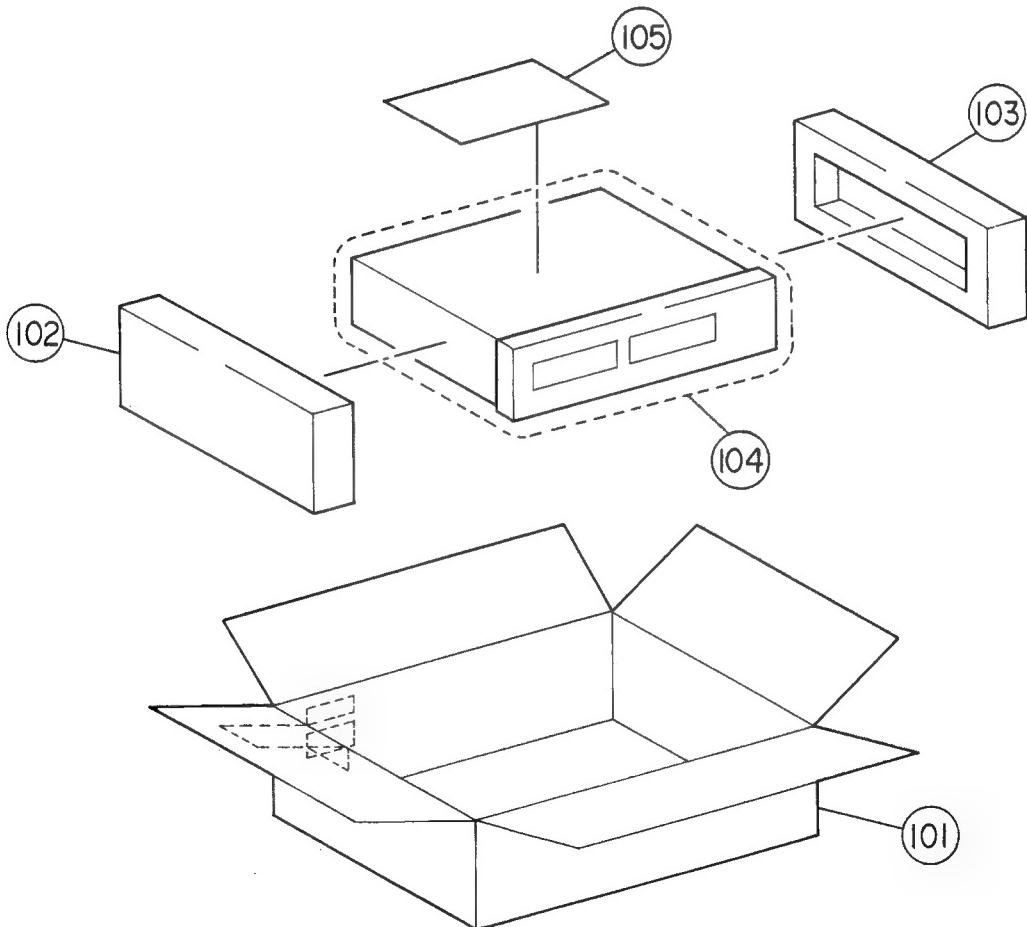
NOTE: The parts without part numbers are not supplied.

## Packing Assembly Parts List

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
101	56S10005W36	Carton, Packing			▲ 105-1	68P96552F35	Owner's, Manual		
102	56D13765W01	Tray, Packing (L)			■ 105-1	68P96552F34	Owner's, Manual		
103	56D13765W02	Tray, Packing (R)			105-2	28T70621F03	Plug, Output		
104	56B40230G23	Sack, Polyethylene			105-3	01T82091F01	Assy., Mini Plug Cord		
★ 105-1	68P96552F35	Owner's, Manual			105-4	01T16150W02	Unit, Remocon RD105U		
● 105-1	68P96552F35	Owner's, Manual			105-5	60T58064F01	Battery, Sum-3		
◆ 105-1	68P96552F35	Owner's, Manual							

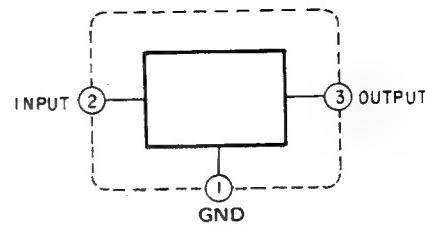
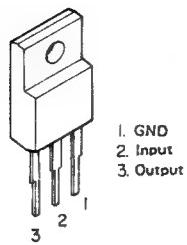
Note : ★ : For General European model only (EK), ▲ : For West German model only (AD),  
 ■ : For North American model only (UZ), ● : For Canadian model only (UQ),  
 ◆ : For England model only (AG), Others : Common.

## Packing Method View

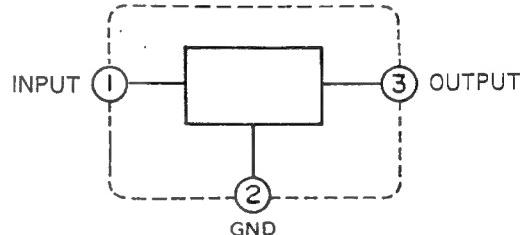
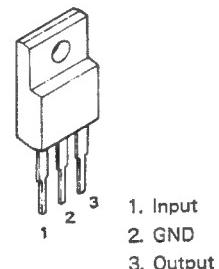


## Semi-Conductor Lead Identifications

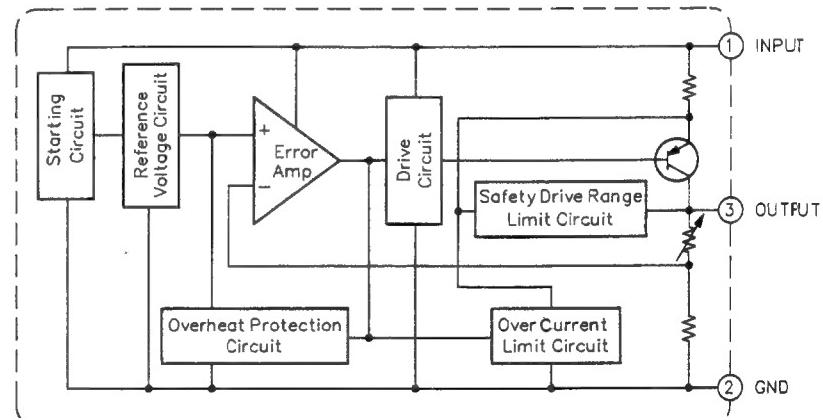
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MC7905 : IC1103



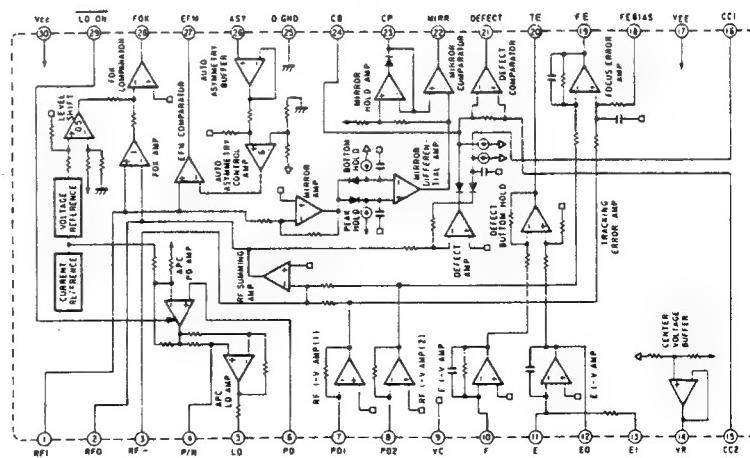
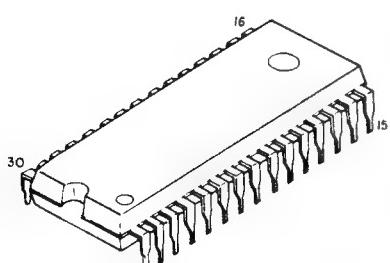
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LM2931AT : IC1104  
MC7805 : IC1406



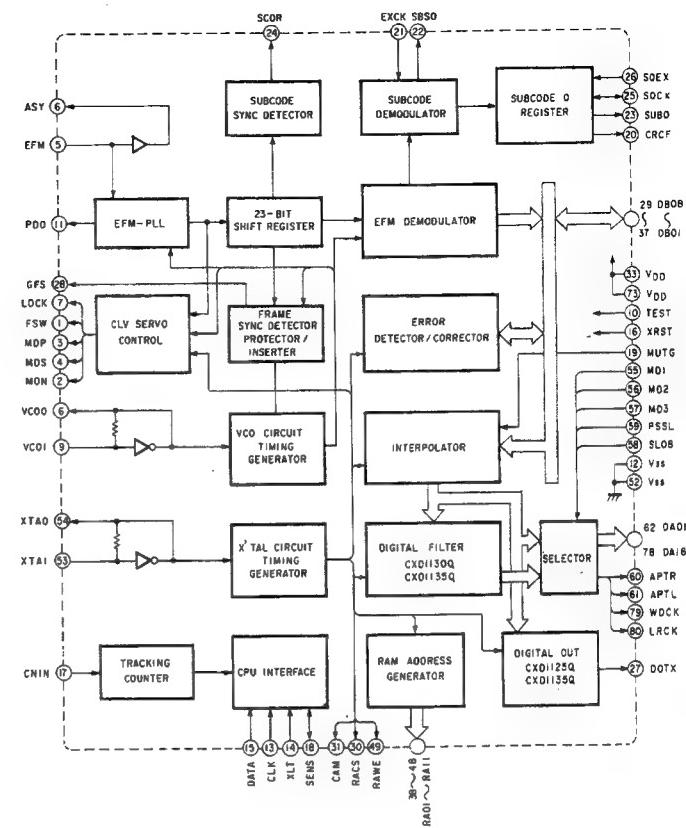
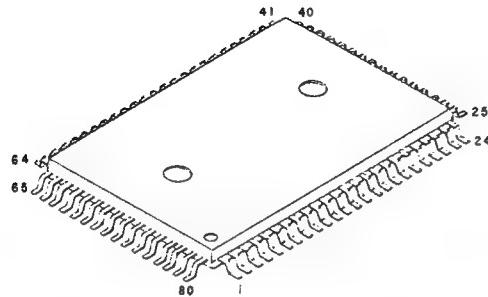
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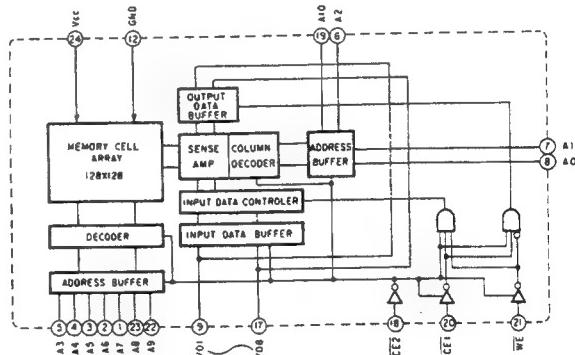
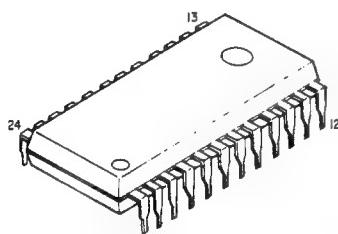
CXA1081S : IC1201



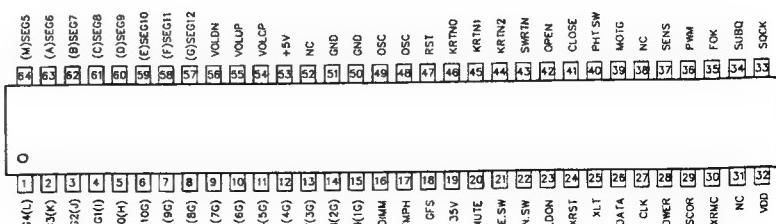
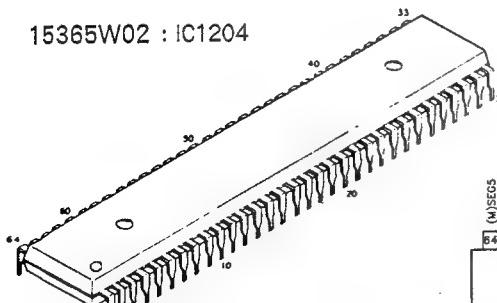
CXD1125QZ : IC1202



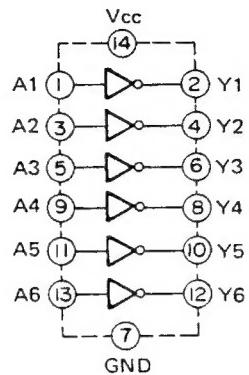
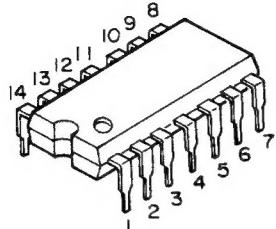
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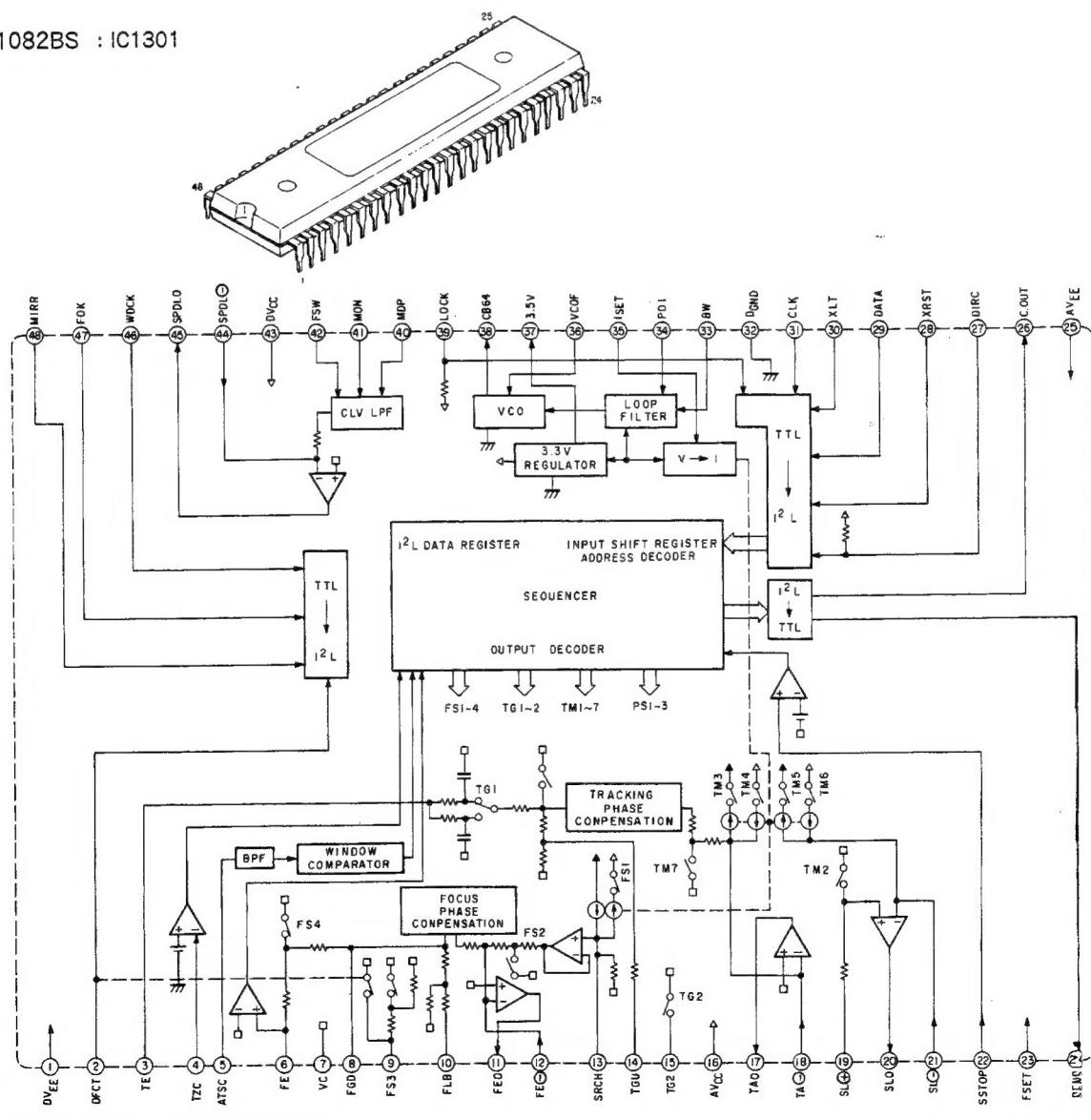
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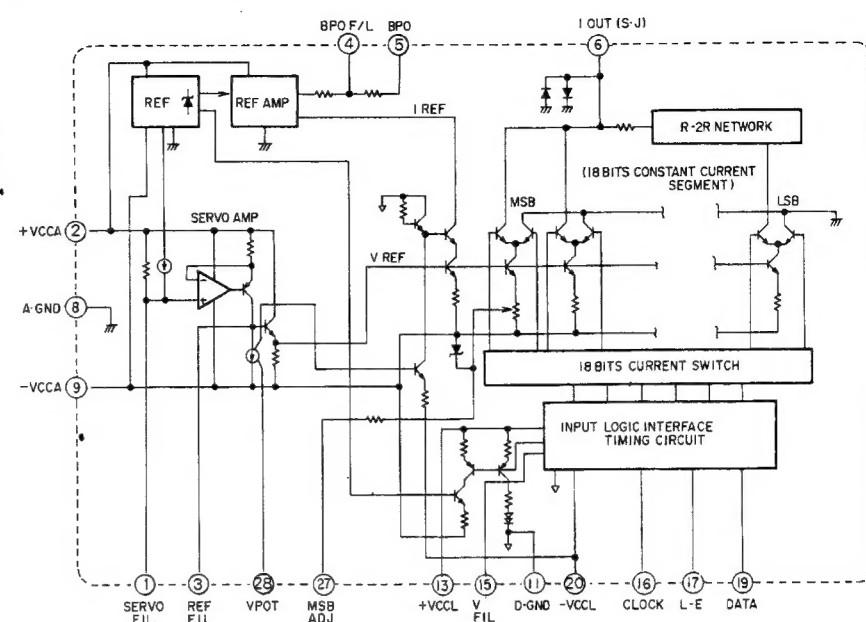
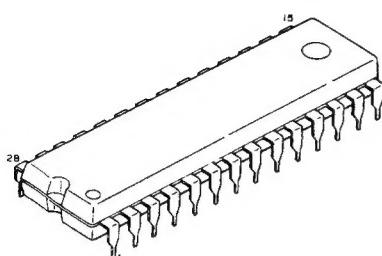
MC74HCU04 : IC1205



CXA1082BS : IC1301



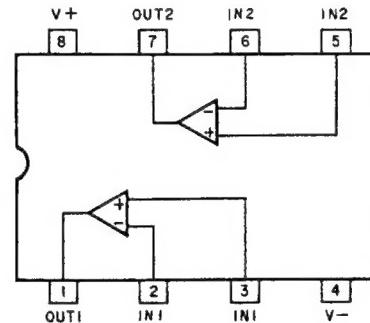
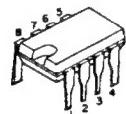
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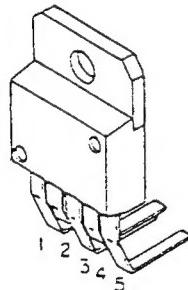
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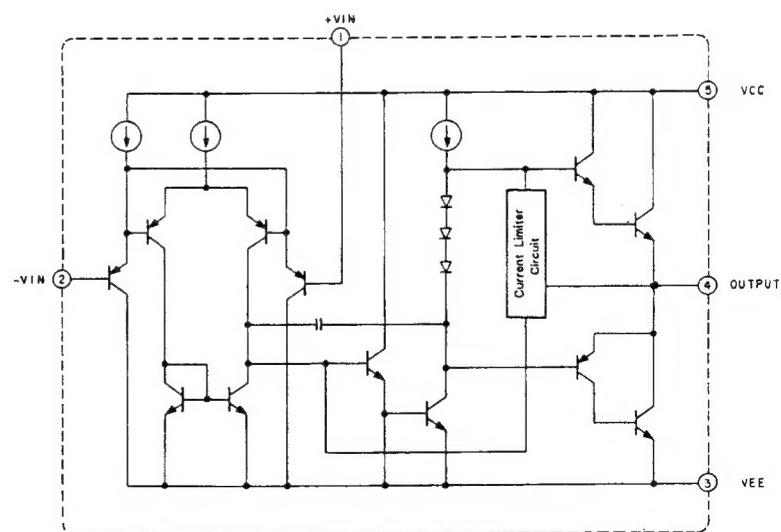
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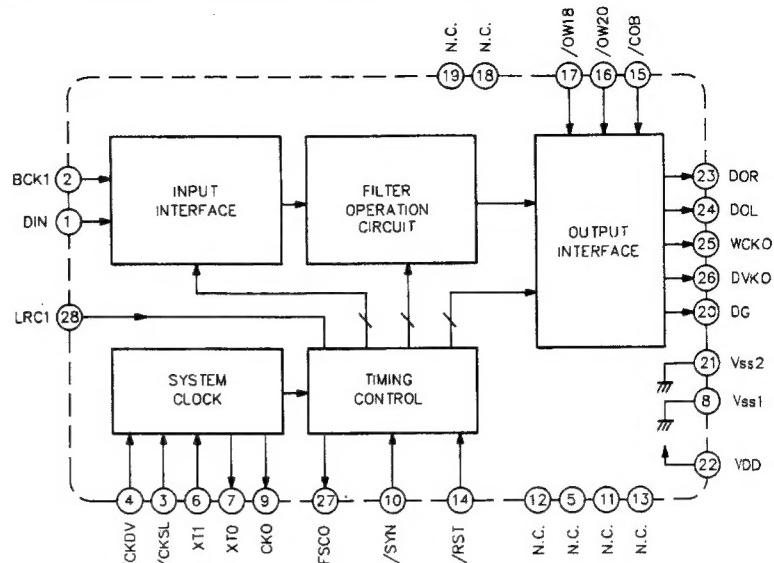
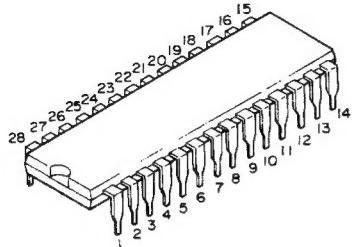
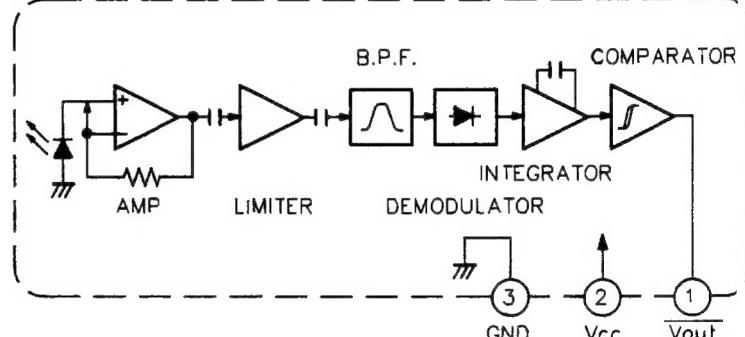
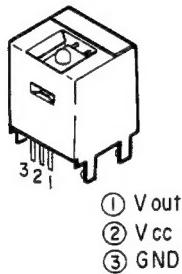
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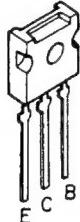
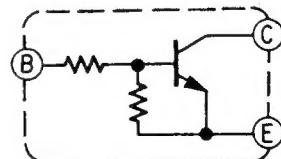
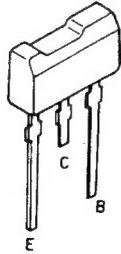
1. +VIN
2. -VIN
3. VEE
4. OUTPUT
5. VCC



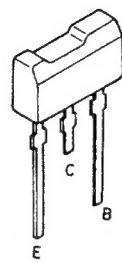
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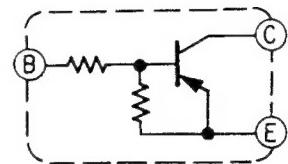
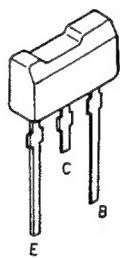
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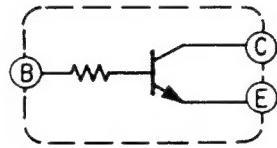
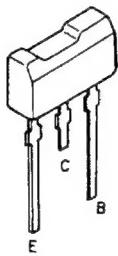
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2SD1862 : Q1302, 1304, 1306, 1308  
2SD1996 : Q1403, 1404



DTA114EL : Q1104, 1106



DTC124TL : Q1211



2SK246 : Q1401, 1402

